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PRESSURE DISTRIBUTION OF A LARGE SEMISPAN TILTING WING WITH 0.4-DIAMETER-CHORD, SINGLE-SLOTTED FLAP, AND A SINGLE PROPELLER 0.22 CHORD BELOW WING

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16. Abstract

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SUMMARY

The model consisted of a semispan wing-propeller combination and a half fuselage. The tests were made for both up-at-the-tip and down-at-the-tip modes of propeller rotation, with and without a leading-edge slat and with and without fences. The tests consisted of the measurement of the wing surface pressures over a range of angles of attack from 5° to 80° for thrust coefficients of 0.90, 0.80, 0.60, and 0.30 for flap deflections of 0°, 20°, 40°, and 60°. These data are presented in tabulated form with only a minimum of analysis.

INTRODUCTION

A research program is being conducted at the Langley Research Center to provide large-scale systematic aerodynamic design data for a tilt-wing propeller-driven V/STOL aircraft configuration. The aerodynamic results of tests of a large-scale semispan tilt-wing propeller-driven model have been published in references 1 to 9. Although information on the loads on a tilt-wing configuration have been published in references 10 to 12, this type of information is generally rather limited. The present pressure test results were obtained simultaneously with the force tests of reference 9. The model had a single propeller on the semispan wing, a wing-chord-diameter ratio of 0.4, a single-slotted flap, a leading-edge slat, and fences. The investigation covered a range of angles of attack from 5° to 80°, and a range of thrust coefficients from 0.30 to 0.90. Included in the investigation were tests for both directions of propeller rotation. The results of this investigation are presented as tabulated pressure coefficients with only a minimum of analysis.

SYMBOLS

The positive senses of forces, moments, and angles are shown in figure 1. The pressure coefficients are based on the dynamic pressure in the propeller slipstream. The coefficients based on free-stream dynamic pressure can be obtained by dividing the slipstream coefficient by $1 - C_{T,s}$: for example, $C_p = C_{p,s}/(1 - C_{T,s})$. The thrust coefficient C_T' may be found from the equation $C_T' = C_{T,s}(A/S)/(1 - C_{T,s})$.

Measurements for this investigation were made in the U.S. Customary System of Units. Equivalent values are indicated herein in the International System (SI) in the interest of promoting the use of this system in future NASA reports. Factors relating the two systems of units used in this paper may be found in the appendix.

The coefficients and symbols used in this paper are defined as follows:

A	total propeller-disk area, ft^2 ($meters^2$)
b	propeller blade chord, ft (meters); also wing span, ft (meters) or spanwise distance of any wing station from center line, ft (meters)
$C_{L,s}$	lift coefficient based on slipstream $L/q_s S$
$C_{T,s}$	thrust coefficient based on slipstream, $\frac{T}{q_s(\pi D^2/4)}$
C_T'	thrust coefficient based on free airstream, $T/q_\infty S$
c	wing chord, ft (meters)
c_b	chord of main body of wing to 0.78c station, ft (meters)
c_f	flap chord, ft (meters)
c_n	section normal-force coefficient from pressure data
C_p	pressure coefficient, $\frac{p - p_\infty}{q_s}$
c_s	slat chord, ft (meters)
D	propeller diameter, ft (meters)
h	thickness of propeller blade, ft (meters)
p	surface station pressure, lbf/ft^2 ($newtons/meters^2$)
p_∞	free-stream static pressure, lbf/ft^2 ($newtons/meters^2$)
q_∞	free-stream dynamic pressure, $\rho V^2/2$, lbf/ft^2 ($newtons/meters^2$)

q_s slipstream dynamic pressure, $q_\infty + \frac{T}{\pi D^2/4}$

R radius of propeller blade, 2.83 ft (0.86 meter)

r radius to element on propeller blade, ft (meters)

S area of semispan wing, 15.68 ft^2 (1.46 $meters^2$)

T propeller thrust, lbf (newtons)

V free-stream velocity, ft/sec (meters/sec)

x longitudinal distance, ft (meters)

y_l lower surface ordinate, ft (meters)

y_u upper surface ordinate, ft (meters)

z vertical distance, ft (meters)

α angle of attack, deg

δ_f flap deflection, deg

ρ mass density of air, slugs/ft^3 (kilograms/$meter^3$)

Subscript:

s denotes slipstream

MODEL

The model used in this investigation was a semispan model which would represent the left panel of the full-span wing and the left half of the fuselage. The principal dimensions of the model are given in figure 2. The spanwise and chordwise locations of the pressure orifices are shown in figure 3. The propeller-blade characteristics are given in figure 4, and a photograph of the model is presented in figure 5.

The wing was constructed to allow numerous modifications to be made in the test configuration, such as a change of wing planform, change of airfoil, the addition of flow

control devices, deflection of the trailing-edge flap, and change of the direction of rotation of the propeller. The basic structure of the wing consisted of a heavy box-beam spar to which a power train to drive the propellers through spanwise shafting was attached, and around which various airfoil contours could be fitted. The propeller location was such that the propeller tip extended out to the wing tip. In the present investigation both directions of propeller rotation were tested. The propeller thrust was measured by a strain-gage balance which was a part of the propeller shaft. The output was fed through sliprings to an indicating instrument. The required values of thrust for each value of $C_{T,S}$ were set by the operator by changing the speed of the propeller drive motor. The blade angle at the 0.75R station of the propeller was held constant at 17° throughout the investigation. The propeller was located 0.22c below the wing chord plane and 0.84c ahead of the wing quarter chord as shown in figure 2(b). The thrust line was parallel to the wing chord line.

The airfoil used on the wing was the NACA 4420 section with a 2.27-foot (0.69 m) chord. This chord length gave a ratio of wing chord to propeller diameter of 0.4. The reference area of the wing based on a semispan of 6.92 feet (2.11 m) was 15.68 ft^2 (1.46 m^2) and did not include the area of the tip fairing.

The model had a 0.40c single-slotted trailing-edge flap. The flap ordinates and the positions for the various deflections are given in figure 2(c). The flap is illustrated in figure 2(c) for the 40° deflection.

The leading-edge slat shown in figure 2(c) was investigated in combination with the flap on this model. With down-at-the-tip rotation, only the inboard section of the slat was used (from 0.21b/2 to 0.51b/2). With up-at-the-tip rotation, the inboard and outboard sections (from 0.69b/2 to 0.95b/2) were used both separately and together.

Fences having a height of 0.20c and extending from 0.14c on the lower surface around the leading edge to about 0.75c on the upper surface were installed at two spanwise locations on the wing (see fig. 2(d)) in an attempt to confine the center section stall inboard of the propeller slipstream. When tests were made with fences on, both fences were installed.

TESTS AND PRESENTATION OF RESULTS

The results presented herein are basically pressure measurements. Some representative results have been plotted to show the trends of the data; however, most of the data are presented in tabular form. (See tables 1 to 31.) Figures 6 to 12 are typical chordwise pressure distribution plots. Figures 13 to 19 show spanwise section normal-force coefficients determined for some of the tests. Composite plots of the chordwise pressure distributions at the various spanwise stations are presented in figures 20 to 21.

Some photographs showing tuft stall patterns are presented in figures 22 to 28. Typical lift curves from reference 9 are presented in figure 29.

The tests were made for a range of single-slotted flap deflections with and without the leading-edge slat and fences, and for both left-hand (down-at-the-tip) and right-hand (up-at-the-tip) directions of propeller rotation. The specific configurations tested, together with a list of tables in which the tabulated pressure coefficients for each may be found, are given in the index to the pressure tables which follows.

Configuration	Flap deflection, deg	Table
Rotation down at tip (left hand)		
Basic leading edge	0	1
Basic leading edge	20	2
Basic leading edge	40	3
Basic leading edge	60	4
Basic leading edge; fences on	0	5
Basic leading edge; fences on	20	6
Basic leading edge; fences on	40	7
Basic leading edge; fences on	60	8
Inboard slat	20	9
Inboard slat	40	10
Inboard slat	60	11
Inboard slat and fences	20	12
Inboard slat and fences	40	13
Inboard slat and fences	60	14
Rotation up at tip (right hand)		
Basic leading edge	0	15
Basic leading edge	20	16
Basic leading edge	40	17
Basic leading edge	60	18
Basic leading edge; fences on	0	19
Basic leading edge; fences on	20	20
Basic leading edge; fences on	40	21
Basic leading edge; fences on	60	22
Inboard slat	20	23
Inboard slat	40	24
Inboard slat	60	25
Inboard slat and fences	20	26
Inboard slat and fences	40	27
Inboard slat and fences	60	28
Full-span slat and fences	20	29
Full-span slat and fences	40	30
Full-span slat and fences	60	31

The tests were made over a range of thrust coefficients from 0.30 to 0.90. For any given test the thrust coefficient was held constant over the angle-of-attack range by adjusting the propeller speed to give the required thrust at each angle of attack. The angle-of-attack range was from 5° to that required to stall the wing or to develop a drag-to-lift ratio of about 0.3, whichever was lower. The test Reynolds number, based on the wing chord length and the velocity of the propeller slipstream, was about 1.9×10^6.

DISCUSSION

Representative samples of the basic pressure data have been plotted and are presented in figures 6 to 12. These plots are for $C_{T,S} = 0.60$ for 0° and 40° flap deflections, and for both directions of propeller rotation for several leading-edge configurations. For the cases with slat and flaps deflected, the pressure coefficient C_p is plotted on the projected chordwise location of the orifice. Section normal force determined by mechanical integration of the basic pressure plots are presented in figures 13 to 19 to show span loading characteristics for the several configurations.

The spanwise load distributions of figures 13 to 16 show the expected general trend of greater normal force over the section of the wing behind the up-going propeller blades which results from the increased angle of attack due to rotation of the propeller slipstream. They also show that this general trend is not followed for the case of 40° angle of attack with down-at-the-wing-tip propeller rotation. This deviation from the general trend would be expected to result if the wing were stalling because of excessive angle of attack behind the up-going propeller blades; and, indeed, the chordwise pressure distribution data of figure 20 indicate the presence of trailing-edge stall over the inboard stations.

The presence of stall on the wing is usually determined by means of observing wool tufts attached to the surface. It is of interest to compare the stall patterns (photographed during the tests) with the pressure distribution plots to ascertain whether the two methods are in reasonable agreement. The pressure plots of figures 6 to 12 have been plotted in figures 20 and 21 in the spanwise order of the stations to give a more pictorial presentation of the whole wing. These figures may be compared with the tuft photographs in figures 22 to 28.

With down-at-the-tip propeller rotation, basic leading edge, and $\delta_f = 0^{\circ}$, the tufts in figure 22 show the beginning of trailing-edge stall at $\alpha = 20^{\circ}$ in the vicinity of wing pressure stations 4 and 5 where the flatness of the pressure curves of figure 20(a) would indicate stall. Furthermore, an increase in angle of attack caused a forward chordwise progression of the stall shown by both the tufts and the pressure plots. Deflection of the trailing-edge flap to 40° (fig. 20(b)) caused an increase in the loading on the forward part

of the wing as well as on the flap as indicated by the increased area under the curves. High negative pressure peaks are shown on the inboard stations which are behind the up-going blade. Stall is indicated on wing stations 6 and 7 at $\alpha = 30^{\circ}$ by the fact that the loading on the wing at these stations is less than that at $\alpha = 20^{\circ}$ over most of the rear part of the wing. This result correlates with the corresponding stall indicated by the tufts in figure 23. The installation of the leading-edge slat inboard of the nacelle caused a reduction of the peak negative pressure and gave a more uniform spanwise loading as shown in figure 20(c); and as shown by the tufts, stall adjacent to nacelle (shown on wing stations 4 and 5 for $\alpha = 40^{\circ}$) is not as complete as that shown for $\alpha = 30^{\circ}$ with the basic leading edge.

With up-at-the-tip rotation, the spanwise loading characteristics are opposite to those for the down-at-the-tip mode of rotation in that the peak negative pressures are now on the outboard wing section behind the up-going blade. Flap deflection caused the usual increase in loading across the span. (See fig. 21(b).) With right-hand rotation (up at tip) inboard leading-edge stall was not a problem, and installing the leading-edge slat behind the down-going blade had no beneficial effect. The pressure plots with inboard slats indicate a loss of lift on the inboard wing stations that is verified by the lower lift coefficients shown by the force data of figure 29(b). The tuft pictures (figs. 26 and 27) show that at the high angles of attack the flow on that part of the wing behind the slat is more aggravated than that for the basic leading edge.

Photographs with the full-span slat and fences (fig. 28) show that the outboard section of the slat delayed separation on the tip section to $\alpha = 60^{\circ}$. The photographs also show that the fences prevented the outward spanwise progression of the center section stall and that the inboard section had unseparated flow up to angles of attack 30° higher than the section without fences. (See fig. 27.) When the pressure data of $\alpha = 30^{\circ}$ and $\alpha = 40^{\circ}$ of figures 21(c) and 21(d) are compared, similar results may be noted. The outboard slat reduced the peak negative pressure and delayed stall to higher angles of attack. Fences on the inboard section were beneficial in preventing spanwise stall progression, and figure 21(d) shows that it is the lift on this section that accounts for the increase in lift shown by the force data in figure 29(b). The span loading in figures 18 and 19 show that at $\alpha = 30^{\circ}$ and $\alpha = 40^{\circ}$, the section normal forces on the inboard stations are considerably higher with the fences on.

CONCLUSIONS

Pressure measurements on a semispan wing-propeller combination and a half fuselage for both up-at-the-tip and down-at-the-tip propeller rotation were determined and the following conclusions can be drawn from a cursory examination of the pressure distribution data:

1. The pressure distribution tests show clearly the expected results of an upwash due to propeller rotation behind the up-going blades and a downwash behind the down-going blades in that there is a greater lift in the unstalled angle-of-attack range and an earlier stall behind the up-going blades.

2. The results of tuft tests correlated well with the results of the pressure distribution tests with regard to the area and extent of stalling and the effects of configuration variables such as fences on stalling.

Langley Research Center,
National Aeronautics and Space Administration,
Langley Station, Hampton, Va., August 11, 1969.

APPENDIX

CONVERSION FACTORS – U.S. UNITS TO SI UNITS

From reference 13 the following conversion factors are included in this report for convenience:

Physical quantity	U.S. Customary Unit	Conversion factor (*)	SI Unit
Area	$feet^2$	0.0929	$meters^2$ (m^2)
Density	$slugs/ft^3$	5153.8	$kilograms/meter^3$ (kg/m^3)
Force	lbf	4.448	newtons (N)
Length	in.	0.0254	meters (m)
	ft	0.3048	meters (m)
Moment	lbf-ft	1.356	newton-meters (N-m)
Pressure	lbf/ft^2	47.88	$newtons/meter^2$ (N/m^2)
Velocity	ft/sec	0.3048	meters/second (m/sec)

*Multiply value given in U.S. Customary Unit by conversion factor to obtain equivalent value in SI Unit.

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Table I.- Pressure coefficients for wing with propeller rotation down at tip, basic leading edge, $\delta_f = 0°$.

(a) $C_{T,s} = 0.90$, $q_s = 20.20$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.950	.618	-.443	-.017	.777	.933	.117
2	1.069	1.192	.836	.614	.153	.168	-.182
3	1.008	1.251	1.069	-.091	-.202	-.073	-.245
4	.667	1.088	1.144	-.108	-.524	-.452	-.305
5	.246	.665	.807	-.658	-.769	-.705	-.329
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.116	-.016	-.016	-.796	-.841	-.358	-.121
11	-.260	-.425	*000.000	-.785	-.724	-.438	-.191
12	-.425	-.371	-.282	-.456	-.418	-.208	-.088
13	-.102	-.265	-.221	-.205	-.206	-.089	-.024
14	-.063	-.148	-.117	-.044	-.127	-.103	-.044
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.049	-.068	.021	.077	-.027	-.055	.035
24	-.005	.147	.212	.208	.183	.084	-.035
25	-.173	-.887	-2.472	.908	1.025	1.164	.251
26	-.580	-1.974	-2.696	.792	*000.000	.722	.457
27	-.788	-1.279	-1.608	.361	.227	.098	.130
28	-.220	-.579	-.546	.227	.114	-.004	.102
29	-.187	-.079	-.078	.234	.123	.088	.094
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.084	.085	.214	.106	.190	.169	.179
32	-.005	.115	.246	.243	.180	.107	-.004
33	.016	.197	.276	.219	.198	.132	.139

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.945	.791	-.206	.398	.544	.715	-.023
2	1.061	1.241	.852	-.170	-.152	-.101	-.378
3	.891	1.142	.960	-.195	-.501	-.335	-.463
4	.584	.893	.891	-.682	-.778	-.647	-.421
5	.182	.533	.649	-.936	-1.030	-.935	-.448
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.180	-.077	-.203	-.915	-.976	-.511	-.189
11	-.293	-.479	*000.000	-.800	-.786	-.467	-.166
12	-.447	-.355	-.395	-.523	-.428	-.291	-.139
13	-.101	-.241	-.252	-.134	-.197	-.175	-.056
14	-.066	-.153	-.184	-.025	-.134	-.134	-.099
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.068	-.046	-.088	.074	.011	-.080	-.053
24	-.031	.187	.165	.221	.192	.027	.042
25	-.116	-.844	-2.221	.854	1.029	1.198	.442
26	-.417	-1.770	-2.545	.873	*000.000	.903	.495
27	-.660	-1.210	-1.657	.539	.407	.244	.169
28	-.194	-.533	-.592	.313	.169	.036	.075
29	-.095	-.048	.032	.291	.146	.100	.189
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.172	.085	.190	.199	.198	.185	.179
32	.002	.125	.174	.229	.175	.145	-.013
33	.005	.208	.251	.248	.193	.082	.126

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.053	1.000	.066	.625	.298	.594	-.056
2	1.021	1.232	.840	-.694	-.511	-.292	-.550
3	.863	1.226	1.072	-.692	-.826	-.591	-.426
4	.510	.818	.991	-.935	-1.048	-.915	-.743
5	.055	.409	.607	-1.244	-1.316	-1.080	-.419
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.228	-.169	-.179	-1.020	-1.070	-.591	-.255
11	-.314	-.522	*000.000	-.860	-.855	-.551	-.163
12	-.508	-.386	-.341	-.557	-.446	-.331	-.070
13	-.096	-.251	-.222	-.127	-.216	-.199	-.049
14	-.062	-.147	-.162	-.055	-.113	-.147	-.050
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.087	-.024	-.030	.104	-.007	-.060	-.012
24	-.049	.223	.258	.172	.175	.021	.056
25	.126	-.371	-1.759	.707	.999	1.157	.369
26	-.434	-1.337	-2.153	.742	*000.000	1.003	.670
27	-.619	-1.016	-1.264	.858	.465	.212	.284
28	-.163	-.467	-.475	.373	.204	.057	.213
29	-.079	-.054	.091	.469	.187	.135	.110
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.240	.092	.264	.240	.208	.180	.281
32	-.022	.117	.189	.245	.182	.125	.073
33	-.010	.222	.342	.324	.205	.131	.194

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.049	.984	.349	-.674	-.116	.257	-.306
2	1.009	1.209	.941	-1.328	-1.024	-.626	-.746
3	.793	1.041	1.051	-1.413	-1.284	-.899	-.881
4	.434	.722	.877	-1.493	-1.484	-1.195	-.791
5	.017	.305	.552	-1.420	-1.483	-1.240	-.689
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.242	-.235	-.225	-1.107	-1.181	-.665	-.309
11	-.325	-.553	*000.000	-.835	-.832	-.543	-.305
12	-.511	-.379	-.306	-.543	-.447	-.294	-.166
13	-.100	-.250	-.186	-.127	-.212	-.208	-.133
14	-.119	-.134	-.008	-.060	-.114	-.133	-.070
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.092	-.046	-.012	.044	-.010	-.061	-.040
24	-.109	.201	.284	.118	.152	-.004	-.011
25	.231	-.180	-1.204	.267	.904	1.056	.139
26	-.175	-1.024	-1.660	.728	*000.000	.990	.411
27	-.512	-.858	-1.096	.639	.604	.393	.241
28	-.148	-.447	-.435	.418	.293	.122	.144
29	-.071	-.046	.110	.364	.182	.138	.115
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.103	.073	.330	.042	.203	.197	.264
32	.007	.098	.280	.176	.180	.167	.013
33	-.031	.189	.290	.194	.194	.147	.198

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.076	1.132	.352	-.919	-.362	.128	-.545
2	.850	1.089	.922	-1.625	-1.235	-.888	-.803
3	.661	.952	.785	-1.831	-1.635	-1.137	-1.041
4	.314	.588	.662	-1.850	-1.703	-1.414	-.844
5	-.075	.124	.308	-1.631	-1.636	-1.275	-.812
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.326	-.307	-.295	-1.207	-1.258	-.670	-.350
11	-.347	-.563	*000.000	-.835	-.846	-.536	-.309
12	-.499	-.372	-.404	-.505	-.413	-.234	-.087
13	-.167	-.246	-.326	-.104	-.205	-.195	-.138
14	-.140	-.119	-.118	-.029	-.123	-.088	-.059
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.155	-.017	-.035	.007	-.022	-.069	-.073
24	-.109	.219	.281	.097	.104	-.020	-.035
25	.337	.138	-.920	.046	.808	.992	.038
26	-.097	-.690	-1.228	.752	*000.000	1.067	.446
27	-.441	-.655	-.905	.693	.673	.468	.219
28	-.133	-.382	-.450	.492	.360	.243	.133
29	-.082	-.051	-.070	.287	.210	.171	.189
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.050	.085	.110	.164	.232	.205	.205
32	.014	.103	.241	.248	.202	.245	.046
33	-.039	.186	.136	.223	.213	.127	.186

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.065	1.130	.611	-1.479	-.735	-.140	-.659
2	.782	1.018	.969	-2.317	-1.660	-1.022	-.943
3	.570	.825	.934	-2.315	-1.923	-1.396	-.973
4	.215	.481	.630	-2.257	-2.025	-1.513	-.872
5	-.155	.005	.212	-1.968	-1.853	-1.396	-.803
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.385	-.426	-.367	-1.324	-1.353	-.706	-.278
11	-.398	-.652	*000.000	-.892	-.909	-.526	-.234
12	-.561	-.415	-.288	-.520	-.461	-.423	-.130
13	-.214	-.281	-.221	-.122	-.228	-.146	-.045
14	-.220	-.153	-.080	-.053	-.168	-.148	-.095
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.174	-.018	.094	.010	-.069	-.088	-.115
24	-.137	.195	.132	.069	.063	-.078	-.054
25	.415	.311	-.463	-.191	.722	.947	-.156
26	.010	-.388	-.986	.763	*000.000	1.022	.365
27	-.433	-.588	-.873	.723	.749	.532	.205
28	-.172	-.339	-.310	.474	.387	.233	.104
29	-.130	-.066	.141	.325	.214	.239	.199
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.068	.060	.175	.238	.221	.246	.214
32	-.005	.069	.322	.278	.154	.179	.001
33	-.036	.166	.196	.260	.167	.086	.173

Table 1. - Continued.

(a) $C_{T,S} = 0.90$, $q_s = 20.20$

$\alpha = 35°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	1.054	1.172	.768	-2.212	-1.122	-.914	-1.162
2	.758	.474	.927	-2.947	-2.727	-1.413	-1.320
3	.485	.051	.808	-2.767	-2.245	-1.513	-1.147
4	-.108	.242	.628	-2.595	-2.234	-1.552	-1.000
5	-.265	-.144	.233	-2.163	-1.977	-1.523	-.915
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.419	-.502	-.376	-1.333	-1.333	-.763	-.395
11	-.414	-.689	*000.000	-.849	-.498	-.538	-.257
12	-.594	-.432	-.300	-.503	-.451	-.284	-.106
13	-.193	-.281	-.194	-.135	-.214	-.237	-.145
14	-.158	-.180	-.085	-.063	-.153	-.209	-.235
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.176	-.054	.017	-.033	-.106	-.274	-.144
24	-.193	.188	.232	.029	-.082	-.169	-.174
25	.570	.492	-.278	-.361	.678	.830	-.420
26	.128	-.117	-.683	.771	*000.000	1.080	.045
27	-.401	-.502	-.571	.771	.812	.574	.142
28	-.161	-.307	-.211	.521	.425	.614	.090
29	-.145	-.081	.139	.492	.265	.139	.134
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.095	.048	.247	.245	.198	.411	.220
32	.005	.088	.224	.254	.154	.192	-.026
33	-.050	.134	.265	.261	.135	.050	.074

$\alpha = 40°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	1.050	1.168	.849	-2.627	-1.478	-.851	-1.623
2	.667	.817	.953	-3.263	-2.407	-1.778	-1.591
3	.404	.591	.834	-3.462	-2.822	-1.905	-1.303
4	-.007	.130	.498	-3.114	-2.688	-1.982	-1.371
5	-.372	-.300	.123	-2.532	-2.252	-1.840	-.874
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.491	-.595	-.477	-1.417	-1.425	-.708	-.349
11	-.429	-.745	*000.000	-.765	-.893	-.509	-.293
12	-.672	-.982	-.607	-.454	-.333	-.153	-.126
13	-.274	-.341	-.247	-.161	-.220	-.109	-.169
14	-.291	-.644	-.171	-.134	-.210	-.140	-.073
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.323	-.104	-.008	-.112	-.211	-.241	-.098
24	-.210	.149	.190	-.042	-.162	-.102	-.086
25	.623	.651	.049	-.363	.503	.494	-.587
26	.128	.005	-.080	.733	*000.000	.978	.077
27	-.378	-.385	-.465	.904	.881	.612	.203
28	-.182	-.278	-.252	.584	.464	.268	.149
29	-.223	-.078	.065	.373	.235	.198	.177
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.165	.045	.230	.273	.264	.257	.310
32	.022	.044	.245	.257	.172	.047	-.016
33	-.092	.109	.286	.197	.113	.004	.209

$\alpha = 45°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.921	1.014	.737	-3.052	-2.205	-1.803	-1.136
2	.341	.392	.423	-3.541	-2.944	-2.347	-.930
3	.024	.115	.195	-3.762	-3.212	-2.649	-.897
4	-.372	-.305	.004	-2.962	-2.663	-1.955	-.540
5	-.653	-.674	-.478	-2.173	-2.058	-1.101	-.303
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.649	-.807	-.685	-.833	-.594	-.403	-.374
11	-.614	-.898	*000.000	-.483	-.375	-.114	-.315
12	-.834	-.975	-.620	-.424	-.134	-.414	-.491
13	-.418	-.594	-.382	-.227	-.377	-.254	-.173
14	-.512	-.336	-.277	-.285	-.208	-.215	-.179
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.535	-.198	-.159	-.284	-.276	-.154	-.342
24	-.360	.079	.092	-.273	-.249	-.185	-.241
25	.694	.953	.639	-1.157	.136	-.045	-.931
26	.252	.449	.594	.663	*000.000	1.011	-.280
27	-.321	-.982	-.008	.644	.473	.745	.073
28	-.163	-.172	-.119	.612	.527	.375	.071
29	-.139	-.053	.076	.349	.253	.101	.078
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.192	.049	.203	.237	.224	.242	.064
32	-.021	.042	.206	.223	.136	.208	-.106
33	-.122	.070	.174	.099	.058	.140	.049

$\alpha = 50°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	1.034	1.127	.827	-3.084	-2.071	-1.650	-1.471
2	.500	.525	.460	-4.149	-3.073	-2.606	-1.017
3	.251	.240	.371	-3.527	-2.966	-2.916	-1.130
4	-.189	-.210	-.044	-3.338	-2.774	-2.434	-.443
5	-.516	-.623	-.371	-2.624	-2.380	-1.934	-.294
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.634	-.771	-.708	-1.075	-.956	-.443	-.838
11	-.571	-.873	*000.000	-.480	-.408	-.376	-.007
12	-.776	-.820	-.607	-.393	-.392	-.467	-.291
13	-.452	-.411	-.368	-.254	-.299	-.369	-.042
14	-.420	-.296	-.307	-.252	-.270	-.350	-.021
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.468	-.156	-.178	-.259	-.304	-.368	-.131
24	-.312	.099	.103	-.169	-.358	-.220	-.169
25	.635	.866	.493	-1.125	.261	.078	-1.009
26	.242	.488	.498	.677	*000.000	.901	.087
27	-.347	-.135	-.120	.979	.953	.558	.255
28	-.167	-.188	-.174	.588	.544	.377	.266
29	-.112	-.041	.061	.363	.263	.164	.259
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.155	.036	.139	.243	.211	.003	.336
32	0.	.026	.173	.214	.129	.044	.097
33	-.121	.078	.178	.124	.075	-.062	.264

$\alpha = 55°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.992	1.092	.775	-3.011	-1.973	-.797	-1.443
2	.441	.010	.715	-3.557	-2.910	-2.010	-1.250
3	.231	.214	.502	-3.587	-2.855	-1.944	-1.222
4	-.093	-.083	.224	-3.263	-2.642	-1.823	-.393
5	-.460	-.477	-.130	-2.620	-2.340	-1.705	-.270
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.545	-.687	-.667	-1.400	-1.380	-.725	-.329
11	-.481	-.774	*000.000	-.835	-.570	-.412	-.174
12	-.724	-.527	-.460	-.342	-.320	-.195	-.247
13	-.351	-.375	-.274	-.203	-.241	-.245	-.121
14	-.466	-.241	-.194	-.154	-.232	-.253	-.120
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.373	-.115	-.114	-.164	-.179	-.155	-.041
24	-.251	.120	.136	-.077	-.201	-.141	-.202
25	.582	.638	.346	-1.137	.435	.340	-.409
26	.208	.498	.100	.624	*000.000	1.013	-.078
27	-.323	-.207	-.303	.859	.851	.717	.142
28	-.157	-.221	-.210	.541	.523	.498	.122
29	-.133	-.071	.047	.353	.253	.233	.147
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.138	.054	.207	.234	.211	.230	.242
32	-.005	.060	.213	.231	.154	.144	-.006
33	-.094	.083	.206	.121	.067	.084	.128

$\alpha = 60°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.866	1.011	.692	-3.233	-2.303	-1.929	-.530
2	.233	.329	.217	-3.573	-2.927	-2.302	-.291
3	-.044	-.023	.106	-2.824	-3.083	-2.654	-.478
4	-.455	-.411	-.126	-2.331	-2.380	-1.671	-.165
5	-.709	-.797	-.616	-.834	-1.904	-.572	-.015
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.734	-.881	-.699	-.576	-.554	-.266	-.214
11	-.796	-1.006	*000.000	-.470	-.359	-.113	-.090
12	-.817	-.674	-.536	-.463	-.230	-.197	-.009
13	-.587	-.316	-.368	-.253	-.236	-.219	.082
14	-.656	-.410	-.382	-.292	-.298	-.174	-.160
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.627	-.248	-.261	-.284	-.280	-.189	-.025
24	-.407	.047	.062	-.378	-.304	-.305	-.255
25	.667	1.023	.746	-1.194	.348	-.207	-.602
26	.274	.627	.704	.614	*000.000	.944	.103
27	-.336	-.054	.003	.914	.938	.572	.376
28	-.183	-.144	-.145	.575	.557	.210	.156
29	-.193	-.039	.070	.447	.313	.140	.142
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.147	.026	.174	.227	.230	.234	.248
32	-.012	.031	.175	.243	.140	.169	.277
33	-.167	.037	.177	.239	.087	.121	.249

Table 1.- Continued.

(b) $C_{T,S} = 0.80$, $q_S = 19.96$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.032	.988	.542	-3.837	-2.577	-1.269	-1.389
2	.333	.308	.211	-4.494	-3.463	-2.332	-1.646
3	.074	-.020	-.023	-4.510	-3.509	-2.568	-1.683
4	-.398	-.441	-.216	-3.738	-3.104	-2.223	-1.229
5	-.737	-.698	-.319	-2.888	-2.692	-1.932	-.888
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.705	-.880	-.853	-1.451	-1.537	-.755	-.295
11	-.610	-.421	.000.000	-.701	-.945	-.519	-.212
12	-.823	-.584	-.513	-.438	-.401	-.153	-.177
13	-.362	-.367	-.295	-.276	-.237	-.234	-.225
14	-.352	-.213	-.198	-.151	-.222	-.192	-.131
15	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
16	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
17	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
18	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
19	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
20	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
21	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
22	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
23	-.425	-.043	-.041	-.126	-.241	-.173	-.193
24	-.344	.192	.171	.141	-.239	-.239	-.273
25	1.009	1.047	.706	-1.483	.035	.613	-.480
26	.320	.682	.651	.589	.000.000	1.125	.169
27	-.125	.615	.151	.475	.499	.838	.261
28	-.130	-.087	.003	.581	.578	.422	.209
29	-.045	.019	.150	.380	.296	.222	.166
30	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
31	-.084	.100	.244	.262	.267	.263	.280
32	0.	.083	.254	.265	.173	.309	-.034
33	-.048	.143	.258	.165	.060	.204	.108

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.447	.431	.343	-4.388	-3.033	-1.904	-1.751
2	.110	.003	-.210	-4.431	-3.875	-2.573	-1.830
3	-.184	-.349	-.393	-4.841	-3.974	-2.588	-1.540
4	-.540	-.781	-.742	-4.203	-3.593	-2.450	-1.088
5	-.954	-1.140	-1.009	-3.287	-3.041	-2.214	-.933
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.802	-.991	-1.003	-1.304	-1.492	-.807	-.211
11	-.668	-.484	.000.000	-.674	-.817	-.347	-.422
12	-.892	-.620	-.529	-.463	-.416	-.237	-.412
13	-.401	-.369	-.349	-.251	-.234	-.242	-.253
14	-.472	-.234	-.244	-.176	-.295	-.259	-.276
15	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
16	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
17	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
18	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
19	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
20	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
21	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
22	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
23	-.630	-.117	-.122	-.131	-.151	-.269	-.135
24	-.422	.113	.130	-.133	-.238	-.227	-.305
25	1.032	1.236	.839	-1.931	-.220	.177	-.834
26	.509	.900	.912	.593	.000.000	1.068	.067
27	-.007	.764	.558	.594	1.053	.739	.057
28	-.112	.015	.095	.849	.677	.680	.050
29	-.096	.005	.142	.435	.330	.312	.033
30	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
31	-.097	.124	.272	.294	.278	.203	.197
32	.005	.142	.248	.305	.176	.222	-.120
33	-.045	.135	.246	.200	.077	.076	.129

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.785	.640	.182	-4.760	-3.103	-1.813	-1.170
2	-.041	-.302	-.331	-5.433	-4.178	-2.719	-1.022
3	-.384	-.619	-.690	-4.709	-3.952	-2.446	-.819
4	-.746	-.987	-.997	-4.065	-3.393	-2.132	-.274
5	-1.006	-1.243	-1.070	-2.403	-2.666	-1.843	-.238
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.955	-1.167	-1.079	-1.208	-1.424	-.598	-.243
11	-.756	-1.057	.000.000	-.753	-.945	-.306	.089
12	-1.022	-.683	-.592	-.541	-.411	-.326	-.141
13	-.594	-.659	-.378	-.312	-.336	-.239	-.036
14	-.661	-.316	-.298	-.295	-.373	-.267	-.102
15	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
16	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
17	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
18	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
19	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
20	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
21	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
22	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
23	-.763	-.155	-.111	-.268	-.254	-.189	-.206
24	-.545	.102	.129	-.172	-.307	-.284	-.060
25	1.081	1.232	.942	-2.320	-.533	-.037	-.491
26	.664	.994	.964	.567	.000.000	.965	.189
27	-.019	.357	.470	.598	1.044	.760	.108
28	-.098	.090	.136	.704	.688	.357	.244
29	-.092	.065	.208	.459	.303	.305	.409
30	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
31	-.107	.134	.288	.307	.280	.271	.314
32	.017	.119	.279	.306	.297	.234	.040
33	-.119	.138	.243	.307	.063	.084	.133

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.638	.457	-.131	-3.571	-3.237	-2.004	-1.125
2	-.265	-.557	-.744	-2.564	-3.610	-2.315	-.483
3	-.028	-.442	-1.026	-3.352	-3.402	-2.645	-.631
4	-.995	-1.284	-1.231	-1.100	-3.103	-2.183	-.311
5	-1.294	-1.511	-1.373	-1.015	-2.513	-.742	-.204
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.044	-1.226	-1.209	-.944	-.850	-.453	-.143
11	-.579	-1.133	.000.000	-.804	-.658	-.274	-.157
12	-.972	-.730	-.622	-.576	-.522	-.293	-.181
13	-.750	-.518	-.445	-.340	-.428	-.303	-.181
14	-.819	-.413	-.412	-.305	-.406	-.279	-.135
15	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
16	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
17	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
18	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
19	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
20	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
21	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
22	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
23	-.912	-.187	-.236	-.332	-.356	-.340	-.220
24	-.494	.038	.050	-.242	-.330	-.319	-.294
25	1.082	1.235	.798	-1.817	-.598	-.523	-1.208
26	.661	1.047	.994	.588	.000.000	.836	-.174
27	.040	.465	.536	.616	1.071	.692	.209
28	-.101	.169	.142	.739	.743	.382	.288
29	-.040	.044	.187	.441	.330	.237	.200
30	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
31	-.167	.136	.240	.291	.271	.260	.293
32	-.009	.098	.214	.303	.172	.201	-.004
33	-.134	.130	.201	.241	.095	.128	.171

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.493	.183	-.419	-3.513	-3.372	-2.214	-.575
2	-.503	-.674	-1.182	-2.870	-3.671	-2.288	-.329
3	-.883	-1.263	-1.310	-1.876	-4.170	-2.139	-.410
4	-1.215	-1.546	-1.553	-1.151	-3.180	-1.439	-.419
5	-1.363	-1.551	-1.494	-.788	-2.149	-.504	-.186
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.119	-1.300	-1.137	-.847	-.733	-.222	-.093
11	-.965	-1.228	.000.000	-.763	-.701	-.227	-.213
12	-.970	-.787	-.617	-.580	-.540	-.273	-.253
13	-.874	-.674	-.492	-.351	-.491	-.274	-.189
14	-.793	-.678	-.469	-.429	-.493	-.346	-.255
15	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
16	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
17	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
18	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
19	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
20	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
21	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
22	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
23	-.920	-.252	-.287	-.355	-.396	-.295	-.347
24	-.458	-.015	0.	-.315	-.336	-.258	-.211
25	1.071	1.193	.734	-1.469	-.722	-.689	-.919
26	.700	1.141	1.068	.616	.000.000	.286	-.097
27	.031	.538	.684	1.034	1.067	.416	.070
28	-.084	.160	.212	.680	.708	.311	.145
29	-.096	.085	.177	.446	.344	.275	.201
30	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
31	-.172	.134	.258	.294	.259	.240	.238
32	-.007	.084	.226	.266	.182	.189	.033
33	-.206	.094	.206	.259	.074	.094	.171

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.424	-.043	-.605	-2.902	-3.720	-2.083	-.445
2	-.701	-1.123	-1.241	-2.739	-3.302	-1.864	-.442
3	-1.056	-1.507	-1.602	-1.737	-3.803	-1.147	-.131
4	-1.491	-1.858	-1.704	-.870	-3.007	-1.049	-.305
5	-1.644	-1.921	-1.655	-.719	-1.824	-.411	-.199
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.257	-1.379	-1.185	-.720	-.539	-.272	-.229
11	-1.074	-1.314	.000.000	-.646	-.340	-.430	-.287
12	-1.046	-.904	-.573	-.621	-.624	-.448	-.313
13	-.949	-.675	-.516	-.429	-.535	-.381	-.429
14	-.929	-.592	-.434	-.384	-.432	-.361	-.383
15	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
16	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
17	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
18	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
19	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
20	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
21	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
22	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
23	-.883	-.308	-.294	-.342	-.375	-.294	-.29
24	-.374	-.050	-.039	-.304	-.338	-.338	-.29
25	1.020	1.118	.662	-1.510	-.691	-1.059	-.63
26	.701	1.102	1.043	.657	.000.000	.036	-.20
27	.042	.615	.751	1.040	1.117	.357	.01
28	-.076	.222	.302	.670	.690	.263	.06
29	-.139	.110	.239	.465	.369	.218	.01
30	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
31	-.161	.100	.264	.287	.260	.211	.04
32	.017	.111	.246	.310	.206	.184	-.15
33	-.171	.105	.216	.264	.092	.065	.10

Table 1.- Continued.

(b) $C_{T,s} = 0.80$, $q_s = 19.96$

$\alpha = 65°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.246	-.274	-.778	-2.703	-3.338	-2.509	-.505
2	-.432	-1.431	-1.027	-2.622	-3.070	-1.432	-.381
3	-1.234	-1.701	-1.043	-1.253	-2.449	-1.080	-.209
4	-1.675	-1.962	-1.774	-.998	-1.587	-.492	-.286
5	-1.833	-2.084	-1.705	-.581	-.965	-.371	-.295
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.446	-1.478	-1.174	-.391	-.472	-.315	-.269
11	-1.142	-1.322	*000.000	-.452	-.442	-.401	-.273
12	-.972	-.894	-.564	-.508	-.302	-.284	-.248
13	-.993	-.661	-.479	-.317	-.361	-.388	-.390
14	-.962	-.544	-.462	-.344	-.395	-.328	-.374
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.784	-.389	-.336	-.287	-.300	-.306	-.294
24	-.379	-.078	-.102	-.382	-.335	-.334	-.379
25	.989	1.064	.621	-1.354	-.945	-1.294	-.657
26	.616	1.089	1.003	.649	*000.000	.006	-.226
27	.010	.640	.799	1.088	1.001	.177	-.090
28	-.141	.218	.274	.687	.579	.241	.199
29	-.133	.140	.224	.511	.305	.210	.158
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.191	.161	.266	.329	.234	.204	.206
32	.012	.137	.231	.318	.204	.173	.008
33	-.185	.130	.184	.369	.118	.159	.131

$\alpha = 70°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.121	-.495	-1.028	-2.543	-2.533	-1.560	-.291
2	-1.224	-1.703	-1.788	-2.371	-2.377	-.901	-.402
3	-1.548	-1.976	-1.921	-1.479	-2.406	-.868	-.347
4	-1.902	-2.134	-1.998	-.553	-.879	-.536	-.289
5	-2.140	-2.324	-1.915	-.510	-.819	-.403	-.242
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.662	-1.572	-1.174	-.354	-.374	-.345	-.271
11	-1.470	-1.535	*000.000	-.432	-.413	-.416	-.313
12	-.949	-.959	-.580	-.532	-.394	-.406	-.412
13	-1.042	-.748	-.494	-.358	-.373	-.362	-.381
14	-.864	-.537	-.369	-.303	-.288	-.329	-.339
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.708	-.394	-.344	-.374	-.348	-.344	-.321
24	-.437	-.095	-.126	-.323	-.358	-.374	-.344
25	.889	.933	.506	-1.162	-.934	-1.122	-.572
26	.881	1.197	1.049	.862	*000.000	-.230	-.187
27	-.106	.672	.801	.715	.635	.101	-.040
28	-.157	.255	.330	.675	.439	.181	.139
29	-.187	.113	.233	.481	.231	.203	.209
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.218	.159	.271	.282	.248	.236	.181
32	.005	.136	.272	.305	.137	.162	-.000
33	-.059	.133	.198	.274	.098	.097	.187

$\alpha = 75°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.223	-.708	-1.205	-2.588	-1.985	-.884	-.499
2	-1.808	-1.882	-1.856	-2.499	-1.535	-.468	-.375
3	-1.743	-2.094	-1.911	-1.157	-.932	-.474	-.367
4	-2.260	-2.357	-2.055	-.427	-.610	-.240	-.410
5	-2.400	-2.343	-1.933	-.509	-.418	-.495	-.321
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.952	-1.756	-1.361	-.400	-.483	-.393	-.417
11	-1.486	-1.452	*000.000	-.356	-.359	-.304	-.282
12	-1.024	-.969	-.817	-.488	-.360	-.322	-.371
13	-1.008	-.858	-.432	-.358	-.333	-.318	-.443
14	-.851	-.524	-.397	-.326	-.312	-.312	-.334
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.743	-.358	-.357	-.411	-.376	-.378	-.515
24	-.495	-.088	-.155	-.423	-.348	-.370	-.403
25	.758	.875	.460	-1.045	-.935	-.894	-.673
26	.714	1.148	1.128	.689	*000.000	-.271	-.279
27	.042	.717	.966	.683	.420	-.024	-.124
28	-.228	.264	.353	.662	.361	.206	.140
29	-.172	.163	.260	.453	.214	.169	.208
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.158	.225	.305	.282	.237	.233	.142
32	-.051	.161	.271	.273	.159	.232	-.063
33	-.076	.156	.210	.191	.067	.072	.096

Table 1.- Continued.

(c) $C_{T,S} = 0.60$, $q_S = 22.01$

$\alpha = 5°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	1.053	.966	.408	.568	.838	.890	.495
2	1.002	1.108	.796	.539	.148	.252	.017
3	.875	1.019	.840	.171	-.197	.059	-.089
4	.478	.632	.593	-.403	-.532	-.375	-.318
5	.060	.174	.075	-.758	-.789	-.628	-.451
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.342	-.345	-.462	-.937	-1.015	-.608	-.388
11	-.455	-.644	*000.000	-.854	-.860	-.688	-.522
12	-.476	-.470	-.422	-.518	-.533	-.438	-.294
13	-.173	-.313	-.288	-.185	-.274	-.274	-.117
14	-.068	-.146	-.147	-.077	-.144	-.207	-.082
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.004	-.044	-.088	.060	.021	-.057	-.031
24	.101	.224	.118	.153	.195	.051	.007
25	.233	-.096	-.700	.151	.957	1.010	.666
26	-.379	-1.071	-1.260	.536	*000.000	.577	.446
27	-.751	-.939	-1.014	-.076	.039	-.063	-.076
28	-.347	-.470	-.366	-.018	-.086	-.116	-.068
29	-.085	-.095	.043	.002	.014	.021	.058
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.023	.058	.101	.058	.113	.073	.101
32		.081	.132	.126	.101	.062	
33	.113	.184	.139	.196	.167	.087	-.009

$\alpha = 10°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	1.166	1.181	.648	-.064	.285	.467	.300
2	.934	1.033	.749	-.651	-.568	-.311	-.381
3	.678	.781	.588	-.934	-1.071	-.633	-.569
4	.311	.342	.230	-1.060	-1.222	-1.040	-.832
5	-.116	-.131	-.143	-1.138	-1.234	-1.086	-.864
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.455	-.571	-.622	-1.168	-1.303	-.831	-.613
11	-.538	-.756	*000.000	-.880	-1.019	-.857	-.647
12	-.705	-.492	-.402	-.589	-.535	-.450	-.329
13	-.145	-.247	-.249	-.149	-.219	-.270	-.150
14	-.097	-.184	-.168	-.068	-.098	-.185	-.128
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.039	-.033	-.049	-.006	.011	-.077	-.049
24	.049	.148	.160	.053	.110	-.011	-.055
25	.532	.348	-.025	.369	.930	1.026	.704
26	.008	-.379	-.426	.590	*000.000	.807	.592
27	-.467	-.592	-.528	.332	.388	.265	.222
28	-.316	-.407	-.257	.140	.105	.074	.065
29	-.064	-.058	.113	.138	.096	.079	.148
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.020	.055	.209	.036	.161	.142	.056
32	.013	.101	.186	.137	.134	.095	-.042
33	.072	.150	.198	.144	.148	.074	.043

$\alpha = 15°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	1.157	1.231	.503	-1.133	-.788	-.314	-.293
2	.635	.742	.343	-1.934	-1.686	-1.130	-.953
3	.384	.510	.219	-1.801	-1.860	-1.307	-1.078
4	.019	.038	-.062	-1.806	-2.010	-1.620	-1.291
5	-.453	-.431	-.432	-1.696	-1.920	-1.598	-1.274
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.385	-.667	-.792	-1.261	-1.488	-1.006	-.688
11	-.577	-.772	*000.000	-.868	-1.034	-.871	-.655
12	-.838	-.503	-.496	-.555	-.590	-.455	-.255
13	-.192	-.271	-.264	-.150	-.193	-.234	-.191
14	-.141	-.139	-.198	-.052	-.077	-.185	-.183
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.118	.020	-.075	-.028	-.039	-.093	-.195
24	-.060	.215	.145	.024	-.008	-.046	-.136
25	.822	.795	.170	.070	.903	.979	.737
26	.245	.041	.024	.236	*000.000	.977	.733
27	-.345	-.330	-.220	.637	.623	.519	.343
28	-.245	-.244	-.173	.274	.227	.208	.160
29	-.120	-.022	.088	.215	.176	.215	.202
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.057	.084	.155	.144	.171	.156	.149
32	-.008	.126	.200	.250	.148	.165	.015
33	-.007	.140	.216	.261	.130	.124	.065

$\alpha = 20°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	1.015	1.076	.336	-1.928	-1.399	-.843	-.877
2	.355	.318	-.152	-2.927	-2.463	-1.811	-1.538
3	.065	.068	-.221	-2.660	-2.702	-2.063	-1.745
4	-.397	-.435	-.564	-2.785	-2.742	-2.275	-1.908
5	-.684	-.807	-.774	-2.223	-2.401	-2.131	-1.773
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.741	-.925	-.897	-1.387	-1.705	-1.277	-.976
11	-.640	-.895	*000.000	-.854	-1.048	-.907	-.704
12	-.881	-.556	-.452	-.510	-.350	-.451	-.348
13	-.257	-.314	-.279	-.208	-.182	-.258	-.330
14	-.212	-.182	-.205	-.154	-.123	-.172	-.287
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.200	-.016	-.043	-.080	-.094	-.133	-.170
24	-.201	.154	.148	-.061	-.071	-.079	-.107
25	1.098	1.122	.473	-.578	.658	.740	.370
26	.544	.502	.483	.570	*000.000	1.003	.758
27	-.127	-.081	.074	.661	.743	.641	.478
28	-.182	-.127	.001	.478	.422	.325	.240
29	-.070	.011	.129	.439	.241	.209	.221
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.074	.122	.258	.129	.262	.289	.247
32		.100	.258	.221	.177	.206	
33	-.046	.148	.254	.203	.114	.083	.051

Table 1. - Continued.

(c) $C_{T,s} = 0.60$, $q_s = 22.01$

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.814	.793	-.104	-3.257	-2.404	-1.525	-1.513
2	.050	-.030	-.657	-3.890	-3.388	-2.437	-1.892
3	-.324	-.440	-.858	-4.407	-4.029	-3.013	-2.534
4	-.652	-.784	-.949	-3.422	-3.161	-2.604	-2.081
5	-.880	-1.132	-1.132	-2.813	-2.653	-2.219	-1.670
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.902	-1.176	-1.123	-1.690	-1.458	-1.388	-.938
11	-.785	-1.089	.000.000	-.876	-.977	-.933	-.534
12	-.923	-.602	-.575	-.507	-.419	-.400	-.272
13	-.284	-.324	-.336	-.301	-.277	-.352	-.308
14	-.258	-.140	-.234	-.244	-.218	-.214	-.303
15	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
16	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
17	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
18	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
19	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
20	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
21	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
22	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
23	-.389	-.047	-.106	-.193	-.213	-.374	-.375
24	-.407	.126	.130	-.077	-.191	-.304	-.336
25	1.201	1.226	.431	-1.175	.052	.376	-.026
26	.704	.852	.767	.542	.000.000	.997	.678
27	.064	.192	.358	.947	.933	.796	.499
28	-.072	.009	.077	.610	.525	.429	.291
29	-.060	.055	.163	.366	.312	.259	.201
30	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
31	-.050	.146	.248	.278	.234	.231	.203
32	.018	.105	.195	.279	.189	.156	.040
33	-.068	.143	.201	.208	.105	.075	.003

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.584	.417	-.448	-4.281	-3.247	-1.918	-1.920
2	-.448	-.660	-1.217	-5.199	-4.218	-3.016	-2.184
3	-.772	-1.082	-1.448	-5.123	-4.427	-3.378	-2.604
4	-1.085	-1.400	-1.608	-4.544	-4.039	-3.020	-2.031
5	-1.325	-1.673	-1.675	-3.335	-3.145	-2.466	-1.650
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.984	-1.212	-1.047	-.775	-.531	-.575	-.689
11	-.747	-1.080	.000.000	-.545	-.351	-.512	-.410
12	-.944	-.629	-.610	-.543	-.674	-.462	-.480
13	-.343	-.378	-.417	-.536	-.336	-.488	-.281
14	-.427	-.272	-.391	-.536	-.461	-.438	-.354
15	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
16	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
17	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
18	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
19	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
20	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
21	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
22	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
23	-.444	-.058	-.113	-.301	-.314	-.391	-.438
24	-.512	.088	.136	-.142	-.222	-.304	-.203
25	1.204	1.261	.484	-1.843	-.377	-.106	-.633
26	.875	1.003	.902	.513	.000.000	1.003	.261
27	.238	.477	.504	.903	1.007	.898	.499
28	-.014	.141	.200	.641	.556	.487	.400
29	-.060	.104	.200	.430	.336	.268	.273
30	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
31	-.122	.121	.237	.231	.249	.226	.270
32	-.021	.098	.178	.254	.136	.181	.040
33	-.116	.149	.143	.248	.027	.005	.047

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.381	.127	-.733	-2.934	-2.445	-1.981	-2.011
2	-.737	-.973	-1.352	-3.024	-2.852	-2.870	-2.308
3	-1.023	-1.285	-1.496	-2.843	-2.679	-2.986	-2.065
4	-1.375	-1.642	-1.627	-2.065	-2.319	-2.625	-1.896
5	-1.520	-1.806	-1.581	-1.089	-1.498	-2.026	-1.271
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.047	-1.353	-1.059	-.493	-.487	-.798	-.608
11	-.887	-1.253	.000.000	-.514	-.515	-.403	-.555
12	-.840	-.665	-.519	-.588	-.605	-.455	-.434
13	-.398	-.442	-.431	-.563	-.622	-.462	-.576
14	-.417	-.328	-.455	-.601	-.615	-.514	-.443
15	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
16	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
17	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
18	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
19	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
20	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
21	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
22	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
23	-.583	-.169	-.367	-.472	-.503	-.440	-.621
24	-.751	-.010	-.217	-.424	-.539	-.460	-.611
25	1.142	1.178	.428	-1.216	-.413	-.059	-.833
26	.987	1.165	.998	.650	.000.000	1.003	.151
27	.338	.579	.690	.998	1.008	1.010	.385
28	.049	.215	.297	.765	.666	.526	.307
29	-.039	.095	.243	.393	.335	.374	.131
30	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
31	-.109	.151	.267	.230	.251	.307	.102
32	-.004	.085	.238	.230	.156	.212	-.114
33	-.095	.090	.133	.090	.005	.072	-.021

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.113	-.463	-1.428	-3.266	-3.315	-2.320	-1.817
2	-1.150	-1.608	-2.132	-3.520	-3.826	-2.843	-1.333
3	-1.450	-2.024	-2.396	-1.811	-3.579	-3.065	-1.523
4	-1.885	-2.314	-2.349	-.980	-2.813	-2.660	-.783
5	-1.774	-2.228	-2.003	-.688	-2.034	-2.040	-.613
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.247	-1.524	-1.248	-.626	-.714	-.688	-.376
11	-1.079	-1.425	.000.000	-.815	-.923	-.504	-.346
12	-1.071	-.751	-.592	-.740	-.932	-.498	-.456
13	-.613	-.548	-.532	-.609	-.605	-.437	-.500
14	-.649	-.357	-.457	-.608	-.465	-.353	-.457
15	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
16	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
17	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
18	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
19	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
20	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
21	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
22	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
23	-.887	-.188	-.493	-.541	-.535	-.343	-.480
24	-.920	-.051	-.310	-.522	-.459	-.480	-.610
25	1.077	1.006	.102	-1.554	-.752	-.239	-1.119
26	1.016	1.243	1.075	.570	.000.000	.924	.043
27	.432	.800	.847	1.040	1.059	.904	.300
28	.104	.359	.436	.772	.736	.532	.247
29	-.056	.177	.275	.423	.376	.291	.101
30	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
31	-.143	.174	.271	.284	.268	.261	.171
32	-.025	.122	.246	.276	.149	.179	-.119
33	-.154	.100	.170	.226	.039	.042	0.

Table 1. - Concluded.

(d) $C_{T,S} = 0.30$, $q_s = 19.42$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.104	1.125	.696	.734	.885	1.026	.772
2	.883	.958	.679	.731	.301	.392	.320
3	.616	.658	.364	.311	-.146	.015	-.071
4	.207	.196	.012	-.641	-.678	-.458	-.538
5	-.187	-.223	-.418	-1.104	-1.045	-.818	-.834
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.522	-.675	-.905	-1.290	-1.221	-.764	-.566
11	-.647	-.889	*000.000	-1.078	-1.099	-.913	-.849
12	-.938	-.584	-.602	-.703	-.691	-.562	-.377
13	-.163	-.323	-.331	-.250	-.323	-.333	-.131
14	-.115	-.222	-.277	-.176	-.220	-.225	-.162
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.016	-.065	-.112	-.003	-.049	-.032	-.075
24	.105	.157	.068	.090	.075	.078	.015
25	.399	.261	-.120	.050	.833	.928	.831
26	-.246	-.569	-.689	.557	*000.000	.516	.445
27	-.586	-.745	-.867	-.202	-.103	-.052	-.004
28	-.370	-.498	-.495	-.300	-.215	-.154	-.038
29	-.162	-.149	-.027	-.051	-.065	-.063	.043
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.095	-.029	.069	-.030	-.007	-.085	-.009
32	.012	.061	.130	.074	.049	.020	-.019
33	.066	.125	.142	.127	.086	.120	-.037

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.087	1.131	.660	-.027	.085	.342	.218
2	.509	.527	.201	-.831	-.770	-.630	-.501
3	.255	.240	-.076	-.868	-1.257	-.996	-.917
4	-.138	-.238	-.430	-1.388	-1.422	-1.285	-1.190
5	-.606	-.800	-1.028	-1.883	-1.867	-1.691	-1.745
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.711	-.943	-1.178	-1.524	-1.526	-1.077	-.884
11	-.717	-1.000	*000.000	-1.121	-1.177	-1.041	-.968
12	-1.107	-.674	-.618	-.824	-.680	-.596	-.552
13	-.235	-.362	-.345	-.260	-.265	-.286	-.226
14	-.157	-.201	-.218	-.132	-.169	-.150	-.398
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.077	-.005	-.104	-.069	-.025	-.092	-.278
24	-.035	.145	.130	.034	.009	-.057	-.275
25	.805	.816	.489	.606	.863	.941	.648
26	.293	.050	.060	.696	*000.000	.806	.574
27	-.240	-.339	-.381	.124	.282	.268	.271
28	-.253	-.338	-.292	-.066	-.025	.021	-.131
29	-.138	-.102	.063	.066	.010	.052	-.056
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.094	.031	.156	0.	.080	.060	-.075
32	.005	.040	.159	.140	.059	.066	-.129
33	-.002	.098	.165	.137	.057	.043	-.227

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.829	.898	.316	-.760	-.632	-.389	-.491
2	.079	.045	-.451	-1.895	-1.627	-1.394	-1.325
3	-.132	-.256	-.658	-1.760	-2.132	-1.767	-1.693
4	-.594	-.766	-1.038	-2.141	-2.187	-1.906	-1.767
5	-1.005	-1.221	-1.427	-2.429	-2.401	-2.170	-1.938
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.909	-1.196	-1.409	-1.699	-1.782	-1.344	-1.147
11	-.881	-1.219	*000.000	-1.259	-1.344	-1.143	-1.032
12	-1.182	-.692	-.599	-.693	-.542	-.484	-.219
13	-.285	-.361	-.339	-.271	-.233	-.217	-.259
14	-.230	-.186	-.193	-.184	-.180	-.162	-.223
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.244	-.028	-.080	-.183	-.191	-.174	-.305
24	-.303	.064	.131	-.078	-.163	-.141	-.155
25	1.023	1.102	.660	.208	.757	.669	.636
26	.570	.655	.618	.238	*000.000	.985	.905
27	-.043	-.008	.029	.634	.555	.541	.564
28	-.173	-.110	-.026	.248	.232	.248	.281
29	-.101	-.040	.101	.220	.093	.140	.102
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.111	.054	.202	-.017	.116	.147	.099
32	-.012	.085	.222	.053	.078	.114	-.054
33	-.092	.088	.189	.128	.011	-.036	-.037

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.630	.540	-.451	-2.157	-1.647	-1.248	-1.297
2	-.422	-.708	-1.488	-3.456	-3.095	-2.689	-2.392
3	-.756	-.972	-1.475	-2.868	-2.571	-2.280	-2.249
4	-1.151	-1.521	-1.898	-3.162	-2.916	-2.849	-2.732
5	-1.253	-1.649	-1.853	-2.626	-2.480	-2.364	-2.232
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.050	-1.400	-1.480	-1.505	-1.163	-1.054	-1.141
11	-.883	-1.258	*000.000	-.812	-.540	-.556	-.804
12	-1.228	-.692	-.617	-.674	-.434	-.420	-.351
13	-.328	-.348	-.345	-.481	-.491	-.531	-.429
14	-.322	-.236	-.294	-.539	-.531	-.735	-.534
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.343	-.043	-.097	-.446	-.361	-.454	-.398
24	-.584	.035	.109	-.382	-.328	-.394	-.375
25	1.047	1.161	.484	-.352	.455	.239	.214
26	.894	1.112	.875	.755	*000.000	1.064	1.013
27	.161	.264	.315	.625	.734	.694	.621
28	-.040	.012	.117	.620	.395	.363	.325
29	-.081	.056	.172	.238	.204	.213	.213
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.124	.085	.204	.138	.141	.148	.118
32	-.023	.068	.186	.148	.048	.057	-.017
33	-.132	.059	.147	.046	-.045	-.064	-.158

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.140	.053	-.985	-2.478	-1.948	-1.695	-1.942
2	-.886	-1.215	-1.841	-2.911	-2.591	-2.736	-2.748
3	-1.272	-1.739	-2.276	-3.366	-2.847	-2.871	-3.063
4	-1.555	-2.062	-2.386	-2.976	-2.397	-2.552	-2.592
5	-1.574	-1.943	-2.000	-1.949	-1.649	-1.827	-2.074
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.263	-1.708	-1.698	-.991	-.607	-.873	-1.208
11	-.958	-1.349	*000.000	-.594	-.594	-.578	-.649
12	-1.051	-.736	-.567	-.663	-.507	-.602	-.618
13	-.373	-.364	-.388	-.583	-.594	-.580	-.519
14	-.393	-.222	-.322	-.527	-.514	-.623	-.543
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.527	-.116	-.262	-.587	-.534	-.628	-.717
24	-.966	-.059	-.113	-.612	-.410	-.573	-.609
25	1.119	1.244	.381	-.505	.265	.115	-.031
26	1.002	1.160	.848	.693	*000.000	.917	.736
27	.433	.571	.590	.702	.826	.771	.644
28	.090	.208	.276	.678	.505	.460	.441
29	-.037	.088	.155	.237	.202	.178	.174
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.169	.108	.202	.121	.126	.103	.043
32	-.014	.078	.167	.112	.058	.029	-.055
33	-.140	.078	.103	-.036	-.063	-.145	-.191

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.476	-.680	-1.917	-2.549	-2.195	-2.215	-2.292
2	-1.720	-2.091	-2.739	-2.987	-2.714	-3.051	-3.031
3	-1.910	-2.459	-2.854	-2.984	-2.662	-2.867	-2.941
4	-2.060	-2.542	-2.648	-2.344	-2.313	-2.958	-2.903
5	-2.101	-2.628	-2.543	-1.454	-1.511	-1.889	-2.049
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.384	-1.809	-1.589	-.650	-.543	-.852	-.894
11	-.971	-1.324	*000.000	-.487	-.464	-.544	-.550
12	-.915	-.719	-.578	-.583	-.518	-.533	-.519
13	-.310	-.529	-.849	-.653	-.648	-.805	-.718
14	-.499	-.304	-.488	-.430	-.525	-.617	-.592
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.812	-.195	-.553	-.514	-.558	-.660	-.713
24	-1.063	-.097	-.298	-.401	-.383	-.465	-.536
25	.989	.998	-.202	-.558	-.035	-.406	-.771
26	1.105	1.244	.893	.685	*000.000	.851	.600
27	.605	.788	.789	.710	.905	.869	.697
28	.180	.295	.367	.892	.556	.516	.426
29	-.048	.130	.221	.305	.273	.255	.262
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.130	.152	.271	.206	.218	.204	.158
32	-.005	.107	.162	.199	.051	.043	-.043
33	-.171	.054	.078	-.006	-.046	-.100	-.159

Table 2.- Pressure coefficients for wing with propeller rotation down at tip, basic leading edge, $\delta_f = 20°$.

(a) $C_{T,s} = 0.90$, $q_s = 20.21$

$\alpha = 5°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.881	.667	-.237	.005	.756	.929	.070
2	.941	1.188	.772	.547	.129	.173	-.197
3	.870	1.144	1.005	-.209	-.201	-.100	-.159
4	.582	.950	1.025	-.540	-.553	-.410	-.377
5	.284	.533	.708	-.600	-.824	-.700	-.349
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.197	-.054	-.074	-.790	-.801	-.403	-.116
11	-.321	-.463	*000.000	-.775	-.785	-.453	-.211
12	-.494	-.388	-.378	-.285	-.501	-.278	-.105
13	-.143	-.351	-.335	-.416	-.350	-.221	-.093
14	-.167	-.318	-.321	-.371	-.342	-.191	-.095
15	-.134	-.083	.340	.275	.155	.276	-.248
16	-.007	.237	.265	.364	.305	.390	.028
17	.040	.203	.271	.363	.331	.387	.045
18	.024	.186	.204	.296	.265	.307	.047
19	.009	.029	.045	.035	.006	.129	.004
20	-.204	-.309	-.368	-.552	-.493	-.277	-.121
21	-.420	-.600	-.645	-.769	-.749	-.386	-.216
22	-.473	-.621	-.693	-.762	-.678	-.410	-.214
23	-.188	-.093	-.271	-.237	-.266	-.215	-.196
24	-.083	.051	.113	.147	.123	.037	-.053
25	-.180	-.784	-2.011	.854	1.083	1.096	.288
26	-.566	-1.557	-2.193	.841	*000.000	.656	.299
27	-.717	-1.060	-1.391	.744	.296	.151	.188
28	-.219	-.409	-.274	.430	.167	.104	.124
29	-.104	.126	.257	.265	.246	.273	.251
30	.272	.768	.511	.955	1.058	1.098	.917
31	.038	.518	.491	.634	.622	.652	.588
32	.031	.321	.426	.506	.523	.479	.529
33	-.041	.276	.314	.484	.353	.305	.058

$\alpha = 10°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.939	.812	.022	-.113	.441	.661	-.083
2	.975	1.134	.838	-.434	-.301	-.189	-.390
3	.841	1.080	.997	-.381	-.592	-.439	-.486
4	.512	.831	.925	-.914	-.915	-.811	-.519
5	.128	.390	.530	-.880	-1.100	-.907	-.456
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.192	-.181	-.178	-.833	-.719	-.453	-.184
11	-.323	-.536	*000.000	-.729	-.854	-.528	-.188
12	-.508	-.419	-.407	-.299	-.495	-.269	-.113
13	-.177	-.405	-.344	-.405	-.380	-.219	-.084
14	-.184	-.356	-.336	-.378	-.363	-.182	-.138
15	-.142	-.129	.327	.345	.209	.297	-.179
16	.026	.245	.322	.388	.311	.437	-.049
17	.056	.213	.256	.380	.332	.398	.002
18	.061	.188	.204	.293	.284	.332	.045
19	.015	.004	.007	.021	-.005	.125	.009
20	-.236	-.326	-.367	-.531	-.478	-.313	-.219
21	-.413	-.621	-.674	-.758	-.732	-.401	-.256
22	-.466	-.613	-.695	-.733	-.631	-.345	-.270
23	-.238	-.141	-.255	-.241	-.286	-.196	-.303
24	-.116	-.068	.086	.149	.129	-.008	-.110
25	.031	-.515	-1.617	.646	1.054	1.103	.393
26	-.494	-1.312	-1.693	.735	*000.000	.866	.531
27	-.696	-.927	-1.074	.721	.459	.230	.196
28	-.196	-.375	-.244	.418	.249	.126	.153
29	-.091	.135	.222	.414	.340	.325	.324
30	.474	.759	.535	.926	1.032	1.098	.940
31	.152	.514	.461	.618	.587	.627	.534
32	.082	.315	.375	.619	.488	.425	.501
33	-.007	.240	.305	.369	.359	.323	.047

$\alpha = 15°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	1.025	.967	.192	-.371	.033	.334	-.339
2	.951	1.156	.830	-.866	-.777	-.491	-.713
3	.764	1.051	.925	-1.079	-1.055	-.776	-.679
4	.382	.703	.779	-1.119	-1.120	-.979	-.559
5	.042	.285	.459	-1.279	-1.398	-1.175	-.624
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.237	-.245	-.292	-.971	-.859	-.610	-.248
11	-.383	-.597	*000.000	-.744	-.887	-.549	-.254
12	-.559	-.439	-.424	-.336	-.557	-.360	-.160
13	-.177	-.395	-.368	-.383	-.414	-.259	-.137
14	-.208	-.362	-.356	-.341	-.389	-.273	-.160
15	-.040	-.170	.366	.335	.204	.297	-.189
16	.014	.276	.349	.434	.313	.358	-.051
17	.078	.199	.274	.356	.314	.306	-.030
18	.067	.188	.237	.297	.266	.259	.038
19	-.013	.033	.029	.050	.010	.005	.024
20	-.247	-.336	-.325	-.507	-.491	-.347	-.169
21	-.480	-.638	-.633	-.709	-.694	-.370	-.254
22	-.511	-.709	-.651	-.710	-.653	-.441	-.328
23	-.270	-.140	-.226	-.201	-.264	-.311	-.308
24	-.112	.087	.083	.190	.119	.040	-.076
25	.047	-.200	-1.141	.456	.949	1.047	.359
26	-.413	-1.122	-1.573	.783	*000.000	.859	.525
27	-.623	-.796	-.992	.797	.534	.259	.236
28	-.179	-.310	-.215	.681	.322	.110	.120
29	-.153	.141	.281	.427	.355	.320	.355
30	.521	.852	.527	.928	.965	.982	.999
31	.155	.548	.523	.658	.588	.595	.526
32	.077	.351	.426	.540	.514	.396	.543
33	-.037	.271	.299	.393	.354	.252	.086

$\alpha = 20°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	1.017	1.072	.440	-1.000	-.295	.212	-.385
2	.883	1.134	.873	-1.560	-1.220	-.821	-.957
3	.647	.932	.878	-1.621	-1.322	-.907	-.891
4	.291	.591	.863	-1.733	-1.478	-1.174	-.846
5	-.044	.161	.311	-1.645	-1.662	-1.306	-.831
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.305	-.351	-.308	-1.084	-1.010	-.656	-.371
11	-.371	-.571	*000.000	-.704	-.881	-.512	-.291
12	-.586	-.458	-.420	-.373	-.563	-.261	-.140
13	-.241	-.407	-.337	-.356	-.374	-.185	-.146
14	-.247	-.366	-.317	-.328	-.375	-.197	-.130
15	-.074	-.219	.420	.416	.225	.364	-.294
16	.043	.247	.343	.421	.332	.474	-.091
17	.095	.224	.338	.398	.322	.431	.012
18	.067	.180	.217	.326	.288	.276	-.021
19	-.021	-.007	.049	.046	-.019	.133	-.001
20	-.355	-.385	-.329	-.490	-.509	-.293	-.222
21	-.534	-.678	-.646	-.696	-.719	-.371	-.306
22	-.565	-.713	-.634	-.673	-.660	-.422	-.350
23	-.350	-.183	-.182	-.150	-.242	-.199	-.334
24	-.240	.105	.118	.174	.117	.013	-.084
25	.240	.079	-.744	.123	.843	1.129	.220
26	-.220	-.718	-1.078	.740	*000.000	1.039	.455
27	-.577	-.656	-.803	.814	.717	.455	.265
28	-.193	-.285	-.188	.717	.406	.235	.185
29	-.169	.147	.329	.466	.402	.377	.374
30	.545	.905	.632	.926	.960	1.020	.799
31	.142	.581	.558	.668	.616	.706	.555
32	.077	.377	.469	.598	.533	.526	.600
33	-.034	.277	.344	.433	.357	.343	.086

$\alpha = 25°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	1.030	1.093	.568	-1.634	-.559	.057	-.788
2	.802	.974	.821	-2.341	-1.702	-.979	-1.095
3	.593	.858	.856	-2.269	-1.978	-1.339	-1.291
4	.229	.429	.596	-2.235	-1.951	-1.515	-1.159
5	-.194	.010	.211	-1.913	-1.888	-1.457	-1.011
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.390	-.464	-.415	-1.248	-1.138	-.782	-.479
11	-.454	-.713	*000.000	-.819	-.997	-.612	-.407
12	-.662	-.532	-.428	-.413	-.579	-.339	-.230
13	-.269	-.495	-.366	-.414	-.443	-.308	-.278
14	-.335	-.433	-.321	-.388	-.394	-.202	-.209
15	-.079	-.241	.382	.413	.240	.328	-.386
16	.092	.238	.410	.423	.337	.438	-.156
17	.084	.184	.314	.380	.328	.401	-.134
18	.070	.164	.255	.308	.287	.330	-.092
19	-.055	-.034	.031	.014	-.017	.088	-.013
20	-.409	-.460	-.377	-.505	-.497	-.334	-.312
21	-.606	-.792	-.671	-.701	-.720	-.431	-.338
22	-.638	-.808	-.694	-.626	-.644	-.410	-.480
23	-.452	-.253	-.222	-.164	-.268	-.245	-.402
24	-.288	.047	.129	.132	.094	-.012	-.165
25	.375	.316	-.436	-.190	.601	.921	.081
26	-.129	-.528	-.812	.763	*000.000	1.045	.404
27	-.526	-.541	-.621	.712	.759	.504	.234
28	-.186	-.252	-.161	.753	.426	.237	.086
29	-.229	.129	.306	.475	.398	.410	.242
30	.592	.961	.709	.948	.967	1.025	.641
31	.168	.547	.633	.689	.651	.689	.434
32	.071	.359	.456	.534	.500	.481	.469
33	-.055	.269	.314	.419	.362	.313	.029

$\alpha = 30°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	1.051	1.165	.660	-2.096	-1.049	-.231	-.964
2	.707	.915	.807	-2.780	-1.880	-1.201	-1.125
3	.509	.702	.772	-2.815	-2.426	-1.673	-1.389
4	.101	.324	.550	-2.636	-2.266	-1.720	-1.190
5	-.247	-.146	.149	-2.255	-1.989	-1.477	-.821
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.409	-.497	-.480	-1.333	-1.192	-.801	-.456
11	-.456	-.715	*000.000	-.827	-.985	-.573	-.330
12	-.696	-.528	-.500	-.379	-.566	-.301	-.213
13	-.345	-.474	-.393	-.416	-.448	-.307	-.243
14	-.357	-.398	-.312	-.328	-.354	-.181	-.208
15	-.226	-.266	.386	.423	.249	.365	-.373
16	.042	.122	.402	.398	.296	.400	-.116
17	.025	.158	.357	.373	.360	.383	-.079
18	.002	.096	.274	.272	.289	.321	-.023
19	-.040	-.089	.055	-.015	-.038	.105	-.047
20	-.445	-.514	-.375	-.577	-.495	-.325	-.197
21	-.627	-.815	-.659	-.605	-.696	-.390	-.322
22	-.671	-.813	-.722	-.574	-.672	-.435	-.391
23	-.619	-.313	-.232	-.174	-.280	-.266	-.224
24	-.397	.080	.161	.098	.082	-.058	-.143
25	.521	.519	-.099	-.683	.456	.872	-.206
26	.024	-.221	-.536	.702	*000.000	1.083	.278
27	-.443	-.377	-.345	.701	.791	.568	.195
28	-.207	-.216	-.081	.588	.479	.302	.141
29	-.129	.147	.313	.500	.403	.346	.257
30	.729	1.035	.835	.943	.984	1.071	.795
31	.192	.568	.602	.725	.633	.698	.509
32	.077	.343	.458	.539	.481	.475	.502
33	-.039	.288	.320	.415	.361	.315	.047

Table 2. - Continued.

(a) $C_{T,S} = 0.90$, $q_S = 20.21$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.037	1.177	.857	-2.689	-1.509	-.719	-1.358
2	.601	.834	.898	-3.508	-2.505	-1.740	-1.558
3	.379	.551	.598	-3.412	-2.669	-1.916	-1.493
4	-.010	.157	.667	-3.238	-2.641	-2.092	-1.513
5	-.332	-.258	.055	-2.547	-2.301	-1.771	-1.117
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.683	-.572	-.526	-1.434	-1.273	-.771	-.380
11	-.505	-.766	.000.000	-.814	-1.041	-.642	-.254
12	-.723	-.550	-.494	-.280	-.508	-.321	-.118
13	-.393	-.503	-.414	-.384	-.399	-.253	-.179
14	-.436	-.461	-.376	-.351	-.363	-.251	-.145
15	-.462	-.216	.272	.444	.269	.326	-.236
16	-.028	.105	.343	.436	.359	.314	-.050
17	-.009	.123	.329	.354	.308	.383	.019
18	.014	.115	.239	.298	.244	.259	-.082
19	-.089	-.071	.010	-.014	-.013	.026	-.066
20	-.544	-.573	-.442	-.510	-.466	-.241	-.153
21	-.808	-.899	-.748	-.563	-.685	-.507	-.384
22	-.967	-.924	-.772	-.514	-.606	-.319	-.140
23	-.771	-.396	-.287	-.152	-.293	-.243	-.200
24	-.419	.055	.161	.044	.050	-.067	-.126
25	.657	.730	.164	-.888	.245	.729	-.478
26	.128	.040	-.264	.636	0000.000	1.126	.302
27	-.425	-.240	-.298	.716	.878	.632	.202
28	-.151	-.136	-.034	.610	.504	.241	.139
29	-.111	.141	.323	.499	.431	.324	.283
30	.005	1.072	.899	.946	.932	1.024	.723
31	.269	.543	.623	.710	.921	.725	.544
32	.106	.392	.477	.540	.495	.510	.575
33	-.027	.303	.366	.398	.305	.248	.031

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.070	1.110	.834	-3.254	-1.930	-.970	-1.584
2	.598	.666	.595	-3.925	-2.747	-2.036	-1.725
3	.331	.378	.547	-3.997	-3.109	-2.180	-1.663
4	-.072	-.014	.262	-3.414	-2.799	-2.167	-1.352
5	-.428	-.490	-.157	-2.851	-2.591	-1.953	-1.225
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.496	-.529	-.545	-.346	-.356	-.275	-.205
11	-.511	-.230	.211	.459	.254	.329	-.299
12	-.048	0.	.323	.446	.258	.335	-.231
13	.042	.032	.137	.419	.271	.359	-.139
14	-.017	.060	.234	.290	.258	.199	-.040
15	-.077	-.156	.026	.013	-.084	.018	-.138
16	-.670	-.644	-.448	-.459	-.425	-.377	-.208
17	-.974	-1.053	-.799	-.452	-.396	-.177	-.239
18	-1.034	-1.083	-.935	-.442	-.386	-.180	-.341
19	-.814	-.479	-.392	-.170	-.298	-.174	-.205
20	-.435	.025	.069	.072	-.166	-.201	-.238
21	.728	.890	.387	-1.215	.005	.528	-.825
22	.200	.255	.229	.706	0000.000	1.054	-.031
23	-.357	-.194	-.265	.685	.904	.590	.148
24	-.175	-.152	-.061	.781	.560	.249	.101
25	-.123	.139	.233	.512	.417	.322	.230
26	.461	1.038	.829	1.034	.971	1.036	.496
27	.247	.557	.510	.710	.585	.656	.463
28	.094	.361	.370	.561	.499	.472	.505
29	-.070	.274	.365	.542	.305	.306	.025

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.026	1.128	.822	-3.610	-2.223	-1.467	-2.086
2	.440	.574	.541	-4.170	-2.998	-2.223	-1.673
3	.171	.255	.374	-4.272	-3.401	-2.704	-1.698
4	-.228	-.196	.198	-3.639	-2.975	-2.486	-1.242
5	-.548	-.605	-.227	-2.738	-2.480	-1.979	-1.086
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.597	-.789	-.665	-1.318	-1.371	-.696	-.276
11	-.660	-.910	.000.000	-.674	-.708	-.329	-.289
12	-.884	-.642	-.507	-.190	-.372	-.212	-.303
13	-.610	-.617	-.490	-.279	-.413	-.168	-.241
14	-.677	-.575	-.413	-.315	-.332	-.161	-.174
15	-.553	-.192	.318	.518	.286	.358	-.578
16	-.131	.045	.383	.391	.315	.442	-.197
17	-.033	.075	.274	.423	.329	.421	-.100
18	-.007	.058	.307	.298	.217	.272	-.133
19	-.216	-.156	-.056	.026	-.236	-.026	-.190
20	-.955	-.698	-.570	-.457	-.538	-.115	-.359
21	-1.211	-1.096	-.755	-.514	-.530	-.248	-.359
22	-1.264	-1.115	-.848	-.419	-.416	-.207	-.436
23	-.948	-.534	-.288	-.233	-.215	-.174	-.420
24	-.461	.010	.035	-.185	-.194	-.201	-.300
25	.768	.943	.638	-1.471	-.166	.165	-1.303
26	.221	.405	.700	.657	0000.000	1.089	-.184
27	-.384	-.085	.084	.705	.921	.738	.172
28	-.188	-.098	.008	.898	.591	.359	.134
29	-.124	.159	.299	.548	.446	.364	.157
30	.886	1.025	1.059	.965	.910	.996	.330
31	.271	.589	.547	.711	.609	.699	.278
32	.009	.382	.573	.502	.438	.424	.382
33	-.087	.270	.285	.348	.257	.271	-.103

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.888	1.006	.598	-3.264	-2.191	-1.656	-1.338
2	.361	.384	.324	-4.406	-3.193	-2.518	-.826
3	.113	.106	.048	-3.988	-3.231	-2.600	-.848
4	-.247	-.324	-.048	-3.384	-2.811	-2.073	-.303
5	-.544	-.717	-.448	-2.623	-2.406	-1.524	-.477
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.651	-.808	-.780	-1.080	-1.105	-.506	-.166
11	-.615	-.932	.000.000	-.456	-.400	-.248	-.222
12	-.747	-.704	-.605	-.178	-.358	-.270	-.280
13	-.669	-.667	-.508	-.278	-.441	-.352	-.235
14	-.730	-.659	-.530	-.318	-.389	-.271	-.228
15	-.506	-.165	.268	.447	.230	.323	-.435
16	-.088	.007	.217	.397	.305	.437	-.129
17	-.037	.003	.241	.378	.295	.255	-.096
18	-.068	.012	.137	.268	.178	.205	-.027
19	-.647	-.222	-.073	-.011	-.022	.013	-.112
20	-.962	-.788	-.656	-.504	-.353	-.349	-.325
21	-1.290	-1.174	-.904	-.501	-.472	-.386	-.363
22	-1.439	-1.259	-.977	-.534	-.263	-.198	-.204
23	-1.055	-.631	-.465	-.263	-.328	-.286	-.241
24	-.488	-.038	.032	-.240	-.253	-.263	-.284
25	.747	1.048	.767	-1.525	-.286	.003	-1.323
26	.288	.508	.801	.644	0000.000	.894	-.069
27	-.388	-.016	.083	1.019	.966	.722	.135
28	-.192	-.082	.031	.814	.619	.322	.133
29	-.147	.145	.256	.511	.426	.298	.202
30	.888	1.053	.960	.984	.958	1.069	.380
31	.232	.561	.532	.672	.584	.633	.184
32	.011	.371	.379	.682	.475	.470	.467
33	-.082	.233	.265	.299	.250	.204	-.091

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.871	.957	.654	-3.756	-2.404	-1.641	-1.123
2	.241	.296	.227	-4.171	-37168	-2.393	-.708
3	-.029	-.056	.005	-3.903	-3.282	-2.677	-.638
4	-.223	-.457	-.346	-2.874	-2.804	-1.605	-.270
5	-.701	-.795	-.499	-2.161	-2.028	-1.391	-.291
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.707	-.888	-.857	-.848	-.650	-.367	-.248
11	-.700	-.998	.000.000	-.889	-.849	-.171	-.240
12	-.948	-.823	-.648	-.150	-.317	-.223	-.213
13	-.749	-.711	-.542	-.361	-.349	-.166	-.208
14	-.915	-.757	-.560	-.408	-.389	-.314	-.428
15	-.556	-.148	.229	.471	.233	.239	-.388
16	-.118	.002	.242	.393	.274	.303	-.178
17	-.134	-.003	.194	.378	.309	.308	-.174
18	-.116	0.	.168	.291	.193	.164	-.048
19	-.253	-.233	-.093	-.018	-.041	.054	-.069
20	-1.088	-.860	-.649	-.444	-.386	-.294	-.317
21	-1.427	-1.234	-.910	-.435	-.378	-.180	-.294
22	-1.560	-1.322	-.991	-.428	-.389	-.418	-.528
23	-1.069	-.661	-.507	-.293	-.275	-.291	-.325
24	-.467	-.044	.003	-.265	-.250	-.266	-.279
25	.733	1.073	.768	-1.481	-.438	-.017	-1.020
26	.318	.595	.675	.676	0000.000	.665	-.150
27	-.323	.034	.133	.973	.917	.570	.054
28	-.191	-.063	-.004	.922	.501	.267	.074
29	-.190	.147	.322	.533	.368	.273	.240
30	.811	.999	.935	.950	.847	.956	.022
31	.153	.556	.527	.685	.576	.760	.269
32	.002	.357	.452	.500	.421	.521	.438
33	-.107	.269	.290	.477	.228	.272	-.044

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.409	.906	.528	-3.265	-2.359	-2.066	-1.184
2	.215	.174	.137	-3.477	-3.175	-2.591	-.285
3	-.064	-.147	.043	-2.996	-3.059	-2.410	-.286
4	-.485	-.586	-.345	-2.571	-2.651	-1.665	-.349
5	-.764	-.952	-.709	-1.928	-2.007	-.720	-.295
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.803	-.989	-.845	-.687	-.558	-.317	-.230
11	-.773	-1.065	.000.000	-.376	-.493	-.434	-.325
12	-.859	-.816	-.611	-.148	-.314	-.270	-.333
13	-.850	-.814	-.515	-.334	-.330	-.345	-.208
14	-.970	-.782	-.507	-.308	-.360	-.386	-.251
15	-.527	-.131	.259	.458	.164	.187	-.281
16	-.140	-.043	.196	.408	.258	.280	-.194
17	-.146	-.019	.225	.370	.242	.211	-.237
18	-.148	-.047	.149	.286	.186	.164	-.136
19	-.360	-.313	-.140	-.029	-.109	-.071	-.199
20	-1.210	-.995	-.712	-.506	-.375	-.305	-.339
21	-1.594	-1.346	-.935	-.415	-.444	-.301	-.301
22	-1.741	-1.530	-.955	-.388	-.381	-.324	-.392
23	-1.193	-.733	-.525	-.277	-.238	-.350	-.304
24	-.420	-.079	-.075	-.261	-.312	-.329	-.334
25	.772	1.136	.747	-1.292	-.444	-.568	-.873
26	.295	.638	.743	.670	0000.000	.484	-.218
27	-.327	.088	.211	.711	.907	.465	.050
28	-.191	-.041	.057	.735	.557	.088	.039
29	-.177	.120	.300	.505	.382	.265	.169
30	.901	1.006	.970	.944	.870	.815	-.116
31	.197	.580	.598	.700	.532	.512	.084
32	-.007	.367	.535	.682	.399	.279	.211
33	-.115	.261	.307	.357	.214	.222	-.015

Table 2. - Continued.

(a) $C_{T,S} = 0.90$, $q_S = 20.21$

$\alpha = 65°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.749	.849	.376	-2.572	-2.403	-1.821	-.730
2	.052	.054	-.009	-2.741	-3.004	-2.186	-.331
3	-.211	-.244	-.217	-2.351	-2.436	-1.874	-.184
4	-.623	-.712	-.474	-1.926	-2.624	-1.460	-.208
5	-.984	-1.040	-.641	-1.234	-1.811	-.507	-.501
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.677	-.994	-.744	-.547	-.473	-.288	-.295
11	-.907	-1.096	.000.000	-.320	-.405	-.028	-.176
12	-.945	-.854	-.614	-.100	-.312	.008	-.148
13	-.988	-.837	-.576	-.272	-.329	-.104	-.268
14	-1.054	-.741	-.493	-.204	-.288	.005	-.099
15	-.534	-.135	.104	.428	.190	.490	-.180
16	-.239	-.047	.205	.383	.246	.341	-.131
17	-.293	-.032	.196	.323	.222	.187	-.111
18	-.268	-.050	.196	.277	.196	.217	-.103
19	-.678	-.239	-.147	.070	-.027	.025	-.118
20	-1.310	-.980	-.619	-.379	-.362	-.167	-.324
21	-1.644	-1.391	-.792	-.388	-.341	-.045	-.298
22	-1.629	-1.366	-.937	-.349	-.314	-.192	-.286
23	-1.201	-.709	-.519	-.251	-.272	-.240	-.381
24	-.429	-.080	-.110	-.248	-.251	-.161	-.299
25	.694	1.117	.752	-.364	-.438	-.656	-.859
26	.265	.733	.643	.698	.000.000	.658	-.113
27	-.342	.126	.293	.404	.476	.490	.064
28	-.266	-.048	-.014	.715	.549	.400	.049
29	-.252	.037	.245	.490	.327	.167	.135
30	.778	1.027	.998	.955	.811	.786	-.048
31	.094	.572	.528	.670	.513	.569	.098
32	-.030	.351	.442	.454	.353	.269	.230
33	-.118	.220	.303	.310	.235	.223	.013

$\alpha = 70°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.704	.788	.434	-3.427	-2.492	-1.519	-.479
2	-.079	-.047	-.133	-2.972	-3.026	-2.192	-.363
3	-.282	-.411	-.095	-2.301	-2.888	-1.633	-.251
4	-.790	-.774	-.475	-2.509	-2.606	-.358	-.248
5	-1.066	-1.106	-.899	-1.203	-1.898	-.463	-.303
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.020	-1.075	-.912	-.538	-.526	-.022	-.142
11	-1.019	-1.130	.000.000	-.363	-.398	-.163	-.231
12	-.751	-.819	-.504	-.136	-.284	-.123	-.354
13	-.948	-.771	-.333	-.291	-.316	-.265	-.379
14	-1.154	-.948	-.483	-.333	-.363	-.209	-.283
15	-.466	-.103	.231	.403	.186	.590	-.293
16	-.321	-.028	.202	.354	.271	.434	-.187
17	-.230	-.022	.232	.336	.210	.264	-.190
18	-.316	-.014	.149	.258	.197	.311	-.131
19	-.579	-.355	-.094	-.018	-.067	-.015	-.239
20	-1.287	-.975	-.510	-.413	-.373	-.216	-.171
21	-1.618	-1.205	-.871	-.364	-.448	-.060	-.200
22	-1.840	-1.347	-.915	-.339	-.369	-.181	-.336
23	-1.114	-.684	-.494	-.296	-.382	-.159	-.297
24	-.414	-.070	-.079	-.223	-.232	-.139	-.230
25	.412	1.221	.726	-1.143	-.546	-.719	-.748
26	.255	.414	.829	.685	.000.000	.224	-.145
27	-.402	.139	.241	.656	.678	.352	.004
28	-.307	-.033	.074	.644	.529	.142	.111
29	-.253	.151	.306	.541	.278	.242	.021
30	.711	.942	.862	.879	.723	.778	-.144
31	.219	.604	.585	.587	.464	.572	.056
32	-.058	.378	.486	.426	.340	.446	.150
33	-.116	.245	.274	.270	.170	.248	.001

$\alpha = 75°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.635	.781	.329	-2.390	-2.288	-2.410	-1.189
2	-.110	-.088	-.152	-2.824	-2.912	-1.038	-.141
3	-.430	-.425	-.247	-2.010	-2.907	-1.577	-.070
4	-.863	-.781	-.340	-1.338	-2.209	-.132	-.159
5	-1.184	-1.186	-.765	-1.245	-1.608	-.152	-.180
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.062	-1.085	-.810	-.485	-.421	-.341	0.
11	-1.161	-1.187	.000.000	-.314	-.277	-.014	-.235
12	-.858	-.895	-.506	-.079	-.352	-.151	-.109
13	-.965	-.794	-.373	-.249	-.228	-.149	-.241
14	-1.104	-.802	-.451	-.267	-.251	-.089	-.193
15	-.506	-.193	.181	.371	.220	.351	-.022
16	-.344	-.023	.201	.349	.322	.398	-.141
17	-.267	-.003	.205	.359	.273	.510	-.001
18	-.525	-.031	.193	.258	.166	.183	-.079
19	-.520	-.298	-.115	.068	.031	.030	-.235
20	-1.284	-.986	-.586	-.380	-.320	-.140	-.139
21	-1.609	-1.180	-.619	-.325	-.252	-.138	-.179
22	-1.588	-1.009	-.519	-.271	-.273	-.356	-.323
23	-.937	-.498	-.383	-.196	-.235	-.068	-.227
24	-.372	-.068	-.163	-.259	-.182	-.079	-.120
25	.621	1.113	.751	-.984	-.639	-.766	-.505
26	.245	.797	.742	.692	.000.000	.492	-.126
27	-.475	.171	.321	.702	.870	.519	.050
28	-.302	-.043	.056	.691	.517	.340	.117
29	-.285	.145	.265	.626	.287	.181	.225
30	.705	.986	.936	.898	.785	.816	-.129
31	.115	.588	.567	.571	.457	.660	.167
32	.020	.387	.458	.419	.333	.373	.259
33	-.037	.271	.311	.275	.249	.235	.119

$\alpha = 80°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.645	.757	.301	-3.374	-2.548	-1.669	-.576
2	-.131	-.222	-.222	-3.611	-3.193	-2.227	-.348
3	-.514	-.477	-.307	-2.437	-2.918	-1.314	-.341
4	-.958	-.868	-.374	-1.210	-2.071	-.352	-.148
5	-1.182	-1.154	-.753	-1.003	-1.430	-.372	-.188
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.207	-1.185	-.945	-.516	-.509	-.424	-.141
11	-1.133	-1.193	.000.000	-.309	-.414	-.219	-.206
12	-.713	-.850	-.490	-.077	-.251	-.311	-.329
13	-1.004	-.784	-.388	-.243	-.284	-.277	-.365
14	-1.094	-.839	-.546	-.314	-.260	-.317	-.327
15	-.431	-.217	.186	.291	.132	.251	-.205
16	-.188	.064	.288	.325	.221	.187	-.348
17	-.337	-.025	.176	.281	.223	.221	-.228
18	-.270	-.017	.161	.190	.134	.097	-.294
19	-.500	-.339	-.142	-.039	-.062	-.033	-.182
20	-1.370	-1.068	-.712	-.455	-.367	-.334	-.301
21	-1.558	-1.144	-.645	-.316	-.244	-.228	-.283
22	-1.608	-1.169	-.723	-.300	-.328	-.469	-.416
23	-.922	-.604	-.440	-.235	-.199	-.328	-.255
24	-.281	-.064	-.152	-.249	-.171	-.274	-.335
25	.605	1.104	.629	-.918	-.439	-.861	-1.029
26	.265	.791	.678	.634	.000.000	.192	-.140
27	-.450	.188	.247	.637	.741	.295	-.020
28	-.273	-.019	.075	.670	.478	.093	-.115
29	-.252	.150	.246	.606	.275	.106	-.001
30	.660	.958	.924	.767	.741	.567	.079
31	.171	.609	.555	.550	.392	.424	-.009
32	-.007	.374	.459	.387	.274	.298	-.017
33	-.071	.227	.256	.182	.151	.141	-.088

Table 2.- Continued.

(b) $C_{T,S} = 0.80$, $q_s = 20.03$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.005	.984	.174	.024	.814	.788	.174
2	1.041	1.169	.883	-.127	-.162	.019	-.116
3	.998	1.044	.993	-.112	-.426	-.166	-.193
4	.326	.417	.835	-.698	-.727	-.537	-.266
5	.491	.457	.435	-.680	-.945	-.741	-.456
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.249	-.209	-.258	-.890	-.672	-.483	-.234
11	-.425	-.586	.000.000	-.769	-.965	-.667	-.384
12	-.629	-.448	-.443	-.267	-.618	-.457	-.270
13	-.262	-.403	-.394	-.450	-.401	-.348	-.238
14	-.249	-.355	-.391	-.443	-.451	-.347	-.217
15	-.265	.193	.411	.317	.194	.205	-.338
16	.002	.281	.316	.383	.321	.348	-.149
17	.075	.237	.242	.385	.345	.359	-.047
18	.100	.177	.194	.317	.280	.213	0.
19	.040	.048	.017	.038	-.016	.054	-.015
20	-.313	-.384	-.403	-.517	-.527	-.460	-.227
21	-.544	-.638	-.703	-.715	-.782	-.601	-.319
22	-.628	-.652	-.747	-.775	-.769	-.643	-.345
23	-.331	-.127	-.259	-.220	-.262	-.355	-.323
24	-.117	.071	.054	.172	.155	.003	-.154
25	.059	-.386	-1.415	.795	1.136	1.070	.321
26	-.642	-1.302	-1.547	.812	.000.000	.675	.471
27	-.309	-.942	-1.024	.450	.411	.179	.188
28	-.420	-.348	-.190	.461	.214	.102	.138
29	-.417	.164	.228	.337	.318	.257	.234
30	.672	.867	.547	1.015	1.054	1.072	.904
31	.366	.572	.524	.714	.679	.665	.510
32	.149	.357	.414	.530	.540	.407	.478
33	.059	.299	.316	.411	.401	.283	-.090

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.111	1.073	.506	-.321	.045	.428	-.047
2	.467	1.069	.434	-.953	-.767	-.402	-.307
3	.757	.963	.496	-.946	-1.016	-.622	-.489
4	.323	.508	.051	-1.149	-1.205	-.864	-.605
5	-.007	.163	.290	-1.241	-1.293	-.996	-.693
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.315	-.338	-.345	-1.086	-.950	-.700	-.419
11	-.430	-.646	.000.000	-.791	-1.053	-.770	-.488
12	-.498	-.515	-.491	-.295	-.689	-.496	-.287
13	-.281	-.444	-.416	-.441	-.508	-.323	-.198
14	-.320	-.399	-.401	-.406	-.482	-.347	-.234
15	-.344	.073	.343	.401	.191	.193	-.272
16	.005	.307	.344	.427	.294	.341	-.117
17	.135	.215	.314	.376	.318	.378	-.042
18	.094	.188	.241	.337	.253	.238	-.006
19	.033	-.003	.034	.065	-.041	.031	-.068
20	-.379	-.413	-.451	-.533	-.564	-.430	-.231
21	-.643	-.712	-.704	-.738	-.819	-.638	-.441
22	-.713	-.765	-.747	-.736	-.801	-.662	-.458
23	-.366	-.184	-.224	-.197	-.297	-.367	-.438
24	-.211	.074	.089	.195	.138	.029	-.113
25	.104	-.007	-.092	.523	1.051	1.080	.661
26	-.601	-.884	-.969	.786	.000.000	.967	.697
27	-.651	-.680	-.678	.638	.545	.353	.336
28	-.275	-.317	-.080	.610	.324	.209	.120
29	-.021	.180	.266	.408	.367	.287	.323
30	.934	.917	.696	.939	.988	.970	.901
31	.335	.519	.547	.719	.687	.646	.578
32	.190	.385	.402	.557	.553	.479	.531
33	.115	.300	.361	.438	.397	.319	.000

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.111	1.131	.647	-1.201	-.560	.070	-.178
2	.668	1.013	.657	-1.979	-1.431	-.917	-.730
3	.553	.714	.638	-2.037	-1.746	-1.085	-.900
4	.249	.308	.439	-2.103	-1.893	-1.477	-1.040
5	-.143	-.078	.064	-1.781	-1.816	-1.498	-1.062
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.403	-.488	-.531	-1.233	-1.113	-.875	-.561
11	-.478	-.758	.000.000	-.895	-1.154	-.832	-.547
12	-.743	-.591	-.559	-.368	-.715	-.495	-.280
13	-.675	-.484	-.415	-.415	-.484	-.393	-.213
14	-.304	-.427	-.356	-.339	-.447	-.310	-.254
15	-.340	-.056	.396	.411	.239	.327	.238
16	-.002	.257	.358	.377	.313	.328	-.093
17	.185	.212	.291	.395	.314	.424	-.114
18	.199	.155	.238	.240	.230	.233	-.083
19	.063	-.048	.008	-.007	-.072	.017	-.084
20	-.624	-.671	-.351	-.556	-.579	-.459	-.298
21	-.710	-.806	-.746	-.753	-.864	-.612	-.458
22	-.734	-.808	-.798	-.691	-.804	-.686	-.486
23	-.498	-.279	-.286	-.197	-.288	-.413	-.447
24	-.277	.091	.087	.142	.152	.017	-.181
25	.534	.313	-.201	-.000	.790	1.008	.611
26	-.195	-.571	-.639	.786	.000.000	1.109	.786
27	-.492	-.499	-.366	.674	.702	.499	.331
28	-.221	-.234	-.053	.740	.446	.313	.232
29	.020	.161	.302	.431	.423	.374	.309
30	1.010	.931	.981	.939	.988	1.009	.824
31	.401	.528	.535	.725	.688	.709	.583
32	.210	.366	.412	.550	.527	.467	.521
33	.046	.294	.382	.550	.401	.283	.034

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.135	1.213	.673	-2.595	-1.406	-.702	-.784
2	.697	.825	.529	-2.840	-2.170	-1.467	-1.214
3	.441	.578	.500	-2.876	-2.496	-1.799	-1.439
4	.050	.178	.312	-2.911	-2.593	-1.994	-1.570
5	-.275	-.262	-.110	-2.241	-2.266	-1.912	-1.422
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.480	-.638	-.584	-1.522	-1.411	-1.081	-.670
11	-.517	-.826	.000.000	-.898	-1.198	-.912	-.652
12	-.617	-.612	-.430	-.399	-.731	-.581	-.353
13	-.472	-.522	-.440	-.435	-.500	-.444	-.253
14	-.428	-.441	-.402	-.302	-.443	-.353	-.288
15	-.395	-.096	.355	.465	.282	.340	-.288
16	.138	.119	.357	.416	.332	.361	-.171
17	.196	.136	.368	.383	.361	.401	-.148
18	.145	.143	.309	.308	.275	.250	-.094
19	-.014	-.069	.030	-.016	-.058	.033	-.126
20	-.553	-.527	-.446	-.514	-.548	-.481	-.283
21	-.647	-.857	-.753	-.655	-.788	-.660	-.419
22	-.693	-.805	-.772	-.535	-.739	-.742	-.529
23	-.721	-.475	-.471	-.161	-.234	-.412	-.509
24	-.407	.094	.146	.118	.108	0.	-.117
25	.746	.699	.185	-.022	.445	.806	.408
26	.089	-.032	-.016	.670	.000.000	1.093	.701
27	-.381	-.276	-.095	.684	.933	.723	.483
28	-.181	-.132	.048	.684	.616	.414	.239
29	.007	.145	.374	.515	.480	.387	.341
30	1.055	1.085	.742	1.012	1.003	1.071	.711
31	.395	.586	.577	.720	.705	.733	.551
32	.194	.410	.493	.620	.541	.536	.558
33	.062	.331	.366	.451	.446	.352	.009

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.130	1.163	.721	-3.453	-2.331	-1.234	-1.409
2	.567	.615	.512	-4.165	-3.317	-2.370	-1.911
3	.292	.283	.233	-3.594	-3.213	-2.387	-1.950
4	-.152	-.180	-.936	-3.622	-3.334	-2.784	-2.184
5	-.434	-.547	-.397	-2.915	-2.810	-2.261	-1.860
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.573	-.828	-.852	-1.708	-1.541	-1.161	-.733
11	-.593	-.932	.000.000	-.870	-1.223	-.871	-.477
12	-.946	-.682	-.626	-.375	-.698	-.442	-.231
13	-.692	-.572	-.439	-.438	-.478	-.415	-.280
14	-.518	-.540	-.495	-.255	-.411	-.335	-.280
15	-.327	-.147	.293	.479	.275	.341	-.387
16	.129	.051	.330	.425	.350	.426	-.210
17	.196	.092	.312	.383	.348	.420	-.098
18	.124	.071	.231	.274	.231	.235	-.028
19	-.048	-.135	-.047	-.035	-.060	-.069	-.125
20	-.724	-.681	-.488	-.511	-.562	-.427	-.260
21	-1.028	-1.042	-.834	-.554	-.731	-.500	-.305
22	-1.163	-1.047	-.838	-.496	-.695	-.458	-.240
23	-.680	-.415	-.274	-.174	-.232	-.271	-.401
24	-.445	.038	.117	.000	.044	-.097	-.131
25	.439	.267	.615	-1.198	.020	.625	-.120
26	.253	.607	.535	.622	.000.000	1.083	.496
27	-.261	-.064	.098	.910	.939	.741	.402
28	-.170	-.052	.145	.773	.645	.457	.295
29	-.035	.202	.340	.544	.477	.414	.350
30	.941	.989	.854	.897	.940	1.002	.696
31	.419	.594	.593	.728	.667	.734	.539
32	.208	.403	.501	.576	.548	.515	.489
33	.017	.330	.399	.448	.416	.385	.073

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.034	1.014	.740	-3.977	-2.542	-1.316	-1.057
2	.374	.358	.149	-4.699	-3.505	-2.349	-1.841
3	.092	.008	.034	-4.432	-3.507	-2.441	-1.900
4	-.348	-.422	-.263	-3.983	-3.493	-2.643	-1.883
5	-.651	-.849	-.493	-3.031	-2.782	-2.136	-1.363
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.861	-.919	-.611	-1.740	-1.626	-1.132	-.610
11	-.631	-.976	.000.000	-.810	-1.129	-.666	-.396
12	-1.014	-.745	-.574	-.378	-.656	-.401	-.231
13	-.559	-.620	-.448	-.345	-.494	-.325	-.234
14	-.645	-.540	-.335	-.231	-.407	-.309	-.246
15	-.471	-.198	.327	.570	.339	.378	-.493
16	.089	.037	.433	.472	.344	.383	-.235
17	.054	.078	.285	.354	.312	.357	-.206
18	.055	.083	.285	.318	.238	.265	-.145
19	-.150	-.167	-.035	-.051	-.048	-.017	-.197
20	-.836	-.724	-.542	-.510	-.547	-.528	-.337
21	-1.261	-1.058	-.757	-.517	-.648	-.362	-.259
22	-1.375	-1.130	-.904	-.465	-.584	-.349	-.291
23	-1.159	-.953	-.331	-.182	-.310	-.296	-.460
24	-.449	.024	.120	.023	-.033	-.299	-.314
25	1.033	1.073	.745	-1.654	-.390	.520	-.459
26	.491	.634	.742	.612	.000.000	1.128	.207
27	-.142	.083	.449	1.023	1.081	.846	.236
28	-.111	.040	.225	.785	.690	.464	.170
29	-.085	.248	.449	.549	.511	.440	.236
30	1.011	1.004	1.026	.991	1.010	1.098	.525
31	.400	.619	.624	.736	.660	.728	.491
32	.186	.412	.576	.622	.544	.532	.363
33	.002	.331	.470	.452	.394	.339	-.070

Table 2. - Continued.

(b) $C_{T,S} = 0.80$, $q_S = 20.03$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.895	.862	.370	-4.670	-3.107	-1.584	-1.699
2	.158	.045	-.309	-5.661	-4.253	-2.734	-2.034
3	-.181	-.357	-.483	-5.409	-4.446	-2.799	-1.961
4	-.549	-.748	-.698	-4.443	-3.637	-2.499	-1.399
5	-.831	-1.054	-.890	-3.250	-2.897	-2.066	-.959
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.772	-1.034	-1.036	-1.613	-1.671	-1.061	-.543
11	-.740	-1.037	.000.000	-.733	-1.060	-.502	-.211
12	-1.102	-.793	-.737	-.341	-.561	-.405	-.327
13	-.724	-.691	-.576	-.408	-.479	-.322	-.245
14	-.471	-.681	-.624	-.399	-.483	-.358	-.284
15	-.355	-.106	.275	.538	.253	.323	-.459
16	-.099	.067	.298	.431	.308	.348	-.251
17	-.087	.065	.238	.430	.323	.386	-.101
18	-.107	.058	.197	.320	.205	.198	-.145
19	-.147	-.217	-.188	-.008	-.145	-.066	-.193
20	-1.113	-.853	-.720	-.575	-.590	-.486	-.324
21	-1.491	-1.187	-.958	-.502	-.689	-.315	-.244
22	-1.832	-1.297	-1.067	-.537	-.771	-.334	-.268
23	-1.299	-.585	-.541	-.192	-.335	-.241	-.305
24	-.541	-.014	.085	-.031	-.161	-.224	-.308
25	1.035	1.188	.694	-2.175	-.669	.300	-.877
26	.520	.826	.793	.558	.000.000	1.074	-.071
27	-.184	.242	.391	1.002	1.036	.806	.226
28	-.134	.103	.204	.854	.721	.428	.249
29	-.079	.287	.319	.609	.499	.428	.323
30	.956	1.062	.971	1.015	.976	1.055	.379
31	.376	.641	.606	.769	.665	.729	.521
32	.123	.439	.443	.596	.491	.439	.406
33	-.055	.335	.353	.435	.313	.264	-.061

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.752	.598	.095	-5.275	-3.600	-2.008	-2.139
2	-.110	-.302	-.492	-5.868	-4.368	-2.946	-2.115
3	-.426	-.650	-.737	-5.784	-4.708	-3.267	-1.870
4	-.786	-1.057	-.951	-4.911	-4.117	-2.942	-1.548
5	-.997	-1.367	-1.246	-3.772	-3.360	-2.384	-1.077
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.866	-1.161	-1.178	-1.650	-1.659	-1.106	-.541
11	-.906	-1.252	.000.000	-.805	-1.150	-.710	-.318
12	-1.174	-.858	-.772	-.282	-.597	-.368	-.308
13	-.895	-.792	-.591	-.409	-.552	-.464	-.409
14	-.981	-.746	-.595	-.400	-.519	-.386	-.341
15	-.397	-.126	.304	.491	.264	.309	-.578
16	-.232	.056	.240	.459	.262	.380	-.256
17	-.255	.025	.327	.409	.345	.259	-.303
18	-.226	.037	.141	.293	.197	.245	-.170
19	-.491	-.305	-.131	-.026	-.140	-.063	-.207
20	-1.300	-.950	-.890	-.540	-.645	-.392	-.489
21	-1.682	-1.378	-1.092	-.614	-.658	-.470	-.484
22	-2.053	-1.482	-1.013	-.519	-.650	-.474	-.503
23	-1.530	-.685	-.472	-.304	-.351	-.253	-.349
24	-.573	-.028	.095	-.084	-.267	-.376	-.358
25	1.057	1.220	.918	-2.707	-1.024	.034	-1.409
26	.612	.993	.993	.450	.000.000	1.028	-.261
27	-.084	.340	.545	1.088	1.121	.857	.102
28	-.134	.148	.274	.871	.749	.396	.116
29	-.110	.261	.422	.602	.472	.276	.160
30	.910	1.077	1.088	1.026	1.012	1.063	.1v0
31	.326	.641	.677	.736	.633	.597	.260
32	.100	.449	.548	.634	.529	.516	.357
33	-.088	.320	.412	.563	.276	.233	-.097

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.678	.411	-.118	-5.943	-4.130	-2.381	-2.078
2	-.276	-.601	-.756	-6.392	-4.300	-3.030	-1.342
3	-.538	-.970	-1.175	-6.371	-4.491	-3.080	-1.230
4	-1.001	-1.302	-1.242	-4.981	-4.122	-2.301	-.323
5	-1.293	-1.515	-1.346	-3.121	-3.124	-2.182	-.718
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.964	-1.250	-1.200	-1.107	-1.122	-.507	-.189
11	-.941	-1.300	.000.000	-.840	-.840	-.438	-.333
12	-1.225	-.978	-.865	-.368	-.804	-.445	-.342
13	-1.042	-.891	-.677	-.486	-.581	-.392	-.398
14	-1.193	-.953	-.620	-.596	-.628	-.354	-.405
15	-.459	-.105	.306	.521	.298	.460	-.433
16	-.304	.047	.285	.413	.301	.339	-.196
17	-.364	.030	.277	.356	.304	.369	-.181
18	-.379	-.005	.215	.223	.222	.206	-.118
19	-.562	-.323	-.162	-.088	-.132	-.028	-.205
20	-1.472	-1.041	-.785	-.742	-.557	-.347	-.403
21	-2.041	-1.498	-1.131	-.555	-.685	-.522	-.435
22	-2.316	-1.578	-1.250	-.528	-.471	-.387	-.416
23	-1.561	-.756	-.563	-.443	-.342	-.394	-.321
24	-.552	-.038	.059	-.290	-.255	-.350	-.329
25	1.082	1.205	.938	-2.385	-1.110	-.086	-1.234
26	.706	1.046	1.052	.353	.000.000	.803	-.230
27	.007	.453	.594	.971	1.077	.746	.154
28	-.080	.198	.300	1.007	.772	.470	.140
29	-.094	.278	.410	.578	.483	.287	.195
30	.858	1.068	1.109	1.005	1.000	1.063	-.064
31	.296	.615	.664	.684	.589	.579	.222
32	.088	.457	.558	.557	.487	.485	.301
33	-.078	.298	.411	.371	.232	.245	-.074

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.622	.273	-.319	-3.064	-3.095	-1.914	-.903
2	-.389	-.781	-1.020	-3.397	-3.719	-2.508	-.360
3	-.640	-1.156	-1.369	-2.261	-4.031	-2.905	-.943
4	-1.091	-1.565	-1.550	-1.575	-3.022	-2.006	-.198
5	-1.311	-1.624	-1.276	-.502	-2.095	-.751	-.191
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.138	-1.413	-1.341	-.888	-.871	-.594	-.194
11	-.945	-1.187	.000.000	-.640	-.564	-.290	-.217
12	-.930	-.866	-.594	-.325	-.429	-.306	-.231
13	-1.077	-.853	-.532	-.500	-.501	-.448	-.208
14	-1.270	-.880	-.630	-.497	-.431	-.306	-.316
15	-.443	-.126	.287	.542	.276	.408	-.296
16	-.364	.036	.285	.464	.333	.378	-.178
17	-.395	-.018	.234	.371	.308	.367	-.130
18	-.375	-.038	.145	.294	.255	.267	-.099
19	-.651	-.358	-.131	-.005	-.119	-.164	-.247
20	-1.525	-1.040	-.750	-.553	-.587	-.475	-.235
21	-2.142	-1.508	-.993	-.523	-.494	-.385	-.445
22	-2.379	-1.627	-1.276	-.494	-.449	-.388	-.418
23	-1.463	-.785	-.646	-.314	-.265	-.297	-.319
24	-.509	-.094	-.106	-.307	-.341	-.286	-.305
25	1.068	1.152	.639	-1.697	-.898	-.463	-1.185
26	.753	1.162	1.042	.663	.000.000	.839	-.050
27	.002	.528	.864	1.043	1.083	.527	.149
28	-.095	.209	.318	.897	.721	.397	.296
29	-.104	.235	.367	.595	.451	.353	.380
30	.795	1.021	1.014	1.027	.944	1.054	.061
31	.260	.640	.680	.720	.610	.649	.193
32	.062	.412	.574	.590	.476	.468	.443
33	-.068	.304	.371	.547	.292	.245	.003

Table 2. - Continued.

(b) $C_{T,S} = 0.80$, $q_s = 20.03$

$\alpha = 55°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.471	.151	-.463	-2.734	-3.370	-2.549	-.809
2	-.572	-1.008	-1.317	-2.895	-3.639	-2.070	-.216
3	-.999	-1.264	-1.255	-1.586	-3.746	-2.522	-.735
4	-1.312	-1.654	-1.400	-.757	-2.834	-1.213	-.245
5	-1.533	-1.782	-1.402	-.463	-1.757	-.576	-.272
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.220	-1.397	-1.107	-.496	-.628	-.219	-.134
11	-1.145	-1.372	.000.000	-.500	-.574	-.302	-.314
12	-1.061	-.964	-.695	-.306	-.501	-.304	-.274
13	-1.148	-.864	-.519	-.387	-.401	-.310	-.324
14	-1.241	-.742	-.348	-.304	-.332	-.393	-.423
15	-.503	-.073	.236	.462	.240	.325	-.220
16	-.531	.033	.295	.453	.283	.375	-.141
17	-.562	-.002	.269	.411	.327	.312	-.205
18	-.488	-.024	.241	.280	.238	.204	-.210
19	-.715	-.394	-.179	-.046	-.130	-.024	-.196
20	-1.660	-1.120	-.681	-.560	-.562	-.446	-.508
21	-2.317	-1.571	-1.029	-.530	-.473	-.298	-.358
22	-2.330	-1.484	-.940	-.423	-.402	-.436	-.439
23	-1.344	-.724	-.540	-.254	-.385	-.387	-.470
24	-.479	-.128	-.192	-.305	-.273	-.298	-.401
25	1.005	1.112	.804	-1.274	-.853	-.731	-.766
26	.708	1.111	1.061	.644	.000.000	.285	-.129
27	.062	.547	.747	1.035	1.045	.354	-.030
28	-.104	.241	.365	.845	.688	.261	.133
29	-.147	.265	.381	.596	.403	.292	.146
30	.647	1.044	1.051	1.025	.941	.972	-.118
31	.265	.669	.700	.751	.596	.722	.111
32	.038	.434	.579	.564	.444	.510	.244
33	-.076	.268	.348	.379	.215	.227	-.020

$\alpha = 60°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.457	-.028	-.585	-2.459	-3.010	-1.853	-.280
2	-.769	-1.141	-1.340	-2.462	-4.002	-1.805	-.178
3	-1.061	-1.474	-1.491	-1.312	-2.577	-1.472	-.382
4	-1.454	-1.737	-1.412	-.577	-1.984	-.700	-.333
5	-1.581	-1.851	-1.424	-.336	-.865	-.346	-.235
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.434	-1.458	-1.140	-.333	-.507	-.457	-.270
11	-1.114	-1.300	.000.000	-.350	-.360	-.316	-.245
12	-.769	-.955	-.608	-.321	-.346	-.289	-.247
13	-1.196	-.874	-.485	-.315	-.304	-.303	-.240
14	-1.496	-.953	-.546	-.308	-.383	-.299	-.221
15	-.541	-.061	.161	.460	.208	.344	-.234
16	-.691	.027	.275	.436	.294	.383	-.180
17	-.611	-.032	.247	.344	.261	.282	-.174
18	-.543	-.052	.205	.335	.238	.187	-.107
19	-.759	-.398	-.212	-.019	-.075	.018	-.150
20	-1.653	-1.048	-.649	-.524	-.429	-.333	-.221
21	-2.077	-1.389	-.708	-.447	-.424	-.399	-.338
22	-2.349	-1.515	-1.035	-.430	-.419	-.424	-.355
23	-1.311	-.779	-.845	-.320	-.352	-.386	-.403
24	-.467	-.142	-.163	-.328	-.288	-.255	-.250
25	1.038	1.112	.613	-1.409	-.916	-.756	-.541
26	.712	1.142	1.097	.710	.000.000	.075	-.193
27	.005	.619	.747	.722	.990	.171	-.067
28	-.108	.264	.376	.856	.655	.190	.110
29	-.185	.251	.359	.545	.357	.229	.217
30	.742	1.096	1.106	1.082	1.019	.897	.058
31	.219	.651	.675	.703	.527	.574	-.016
32	.065	.420	.570	.601	.423	.410	.159
33	-.026	.264	.348	.361	.233	.220	-.030

$\alpha = 65°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.151	-.202	-.645	-2.325	-2.581	-1.446	-.518
2	-1.008	-1.388	-1.449	-2.234	-2.985	-1.004	-.320
3	-1.346	-1.787	-1.813	-1.423	-2.827	-.657	-.496
4	-1.694	-1.986	-1.671	-.406	-2.009	-.524	-.316
5	-1.814	-2.020	-1.531	-.318	-.869	-.322	-.438
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.438	-1.482	-1.103	-.285	-.413	-.460	-.309
11	-1.393	-1.435	.000.000	-.287	-.338	-.264	-.271
12	-.989	-1.026	-.644	-.229	-.417	-.316	-.259
13	-1.209	-.883	-.449	-.279	-.290	-.237	-.243
14	-1.246	-.802	-.470	-.224	-.334	-.267	-.257
15	-.616	-.020	.240	.405	.143	.354	-.187
16	-.668	.057	.318	.373	.259	.257	-.205
17	-.628	.042	.344	.400	.285	.296	-.163
18	-.571	.007	.252	.293	.222	.152	-.138
19	-.831	-.387	-.116	.020	-.088	-.042	-.180
20	-1.565	-1.067	-.726	-.522	-.421	-.350	-.317
21	-2.144	-1.425	-.894	-.434	-.411	-.336	-.389
22	-2.185	-1.389	-.957	-.367	-.373	-.337	-.328
23	-1.109	-.732	-.571	-.305	-.323	-.329	-.369
24	-.456	-.147	-.201	-.278	-.320	-.279	-.296
25	.940	1.038	.537	-1.198	-.995	-.997	-.890
26	.661	1.170	1.152	.702	.000.000	-.137	-.201
27	-.024	.653	.794	1.063	.981	.146	-.012
28	-.203	.253	.382	.812	.595	.253	.165
29	-.201	.228	.355	.569	.312	.206	.152
30	.615	1.042	1.060	1.009	.952	.754	-.019
31	.174	.639	.698	.643	.494	.534	.040
32	.007	.434	.567	.471	.363	.414	.244
33	-.017	.304	.373	.317	.151	.213	.030

$\alpha = 70°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	-.047	-.484	-1.040	-2.491	-2.327	-.961	-.423
2	-1.194	-1.609	-1.857	-2.412	-2.394	-.384	-.439
3	-1.624	-1.910	-1.886	-1.217	-2.033	-.372	-.356
4	-1.903	-2.143	-1.774	-.561	-.786	-.490	-.445
5	-2.125	-2.211	-1.612	-.361	-.337	-.318	-.340
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.674	-1.592	-1.187	-.317	-.319	-.290	-.360
11	-1.347	-1.328	.000.000	-.201	-.319	-.279	-.265
12	-.812	-.934	-.510	-.195	-.289	-.289	-.333
13	-1.191	-.849	-.463	-.281	-.276	-.242	-.330
14	-1.359	-.866	-.441	-.150	-.306	-.196	-.270
15	-.539	.003	.253	.320	.112	.279	-.156
16	-.717	.037	.295	.247	.249	.252	-.128
17	-.634	.017	.332	.300	.255	.278	-.097
18	-.495	-.008	.242	.201	.184	.161	-.126
19	-.726	-.322	-.039	-.038	-.119	-.076	-.181
20	-1.380	-.908	-.570	-.371	-.367	-.367	-.335
21	-2.038	-1.342	-.930	-.514	-.419	-.409	-.496
22	-2.128	-1.402	-.919	-.423	-.310	-.419	-.405
23	-1.053	-.715	-.510	-.259	-.265	-.332	-.356
24	-.464	-.121	-.128	-.288	-.293	-.316	-.325
25	.934	.964	.518	-1.195	-.982	-1.030	-.586
26	.746	1.155	1.121	.721	.000.000	-.152	-.283
27	.029	.719	.865	1.055	.725	.030	-.073
28	-.124	.304	.408	.889	.474	.159	.060
29	-.230	.264	.384	.554	.303	.224	.081
30	.646	1.037	1.098	.786	.735	.549	-.107
31	.178	.658	.700	.500	.406	.463	-.019
32	.051	.423	.567	.420	.304	.307	.050
33	-.057	.222	.335	.224	.153	.168	.074

Table 2.- Continued.

(c) $C_{T,s} = 0.60$, $q_s = 21.74$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.105	1.147	.641	.104	.509	.711	.370
2	.912	.944	.593	-.620	-.471	-.191	-.121
3	.782	.923	.652	-.634	-.773	-.400	-.351
4	.402	.646	.353	-.896	-1.055	-.845	-.631
5	-.059	-.033	-.144	-1.173	-1.282	-1.073	-.770
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.465	-.580	-.740	-1.285	-1.043	-.872	-.584
11	-.577	-.804	.000.000	-.932	-1.115	-.909	-.704
12	-.885	-.832	-.624	-.654	-.809	-.644	-.448
13	-.357	-.585	-.500	-.514	-.620	-.533	-.384
14	-.336	-.476	-.440	-.460	-.530	-.456	-.310
15	-.167	.343	.332	.255	.143	.133	-.321
16	.214	.141	.276	.374	.303	.268	-.115
17	.247	.166	.211	.316	.290	.282	-.159
18	.244	.138	.188	.279	.243	.246	-.110
19	.062	-.064	-.022	-.030	-.078	-.063	-.168
20	-.409	-.490	-.427	-.568	-.642	-.600	-.414
21	-.734	-.831	-.741	-.805	-.956	-.821	-.507
22	-.815	-.825	-.743	-.794	-.891	-.825	-.531
23	-.465	-.257	-.245	-.233	-.315	-.435	-.438
24	-.212	.032	.024	.138	.124	.010	-.218
25	.341	.142	-.044	.571	1.075	1.046	.761
26	-.342	-.580	-.494	.547	.000.000	.743	.573
27	-.610	-.592	-.399	.241	.344	.223	.180
28	-.302	-.275	-.033	.240	.144	.090	.118
29	-.010	.143	.217	.290	.313	.308	.245
30	1.009	1.002	.387	.978	1.098	1.060	.904
31	.448	.575	.433	.751	.727	.713	.556
32	.213	.357	.383	.541	.572	.453	.518
33	.030	.279	.317	.381	.377	.310	-.131

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.143	1.181	.617	-.764	-.290	.076	.031
2	.755	.856	.463	-1.283	-1.255	-.878	-.666
3	.472	.533	.278	-1.543	-1.703	-1.190	-.971
4	.090	.111	-.048	-1.886	-1.939	-1.590	-1.321
5	-.317	-.357	-.472	-1.758	-1.958	-1.660	-1.296
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.542	-.693	-.819	-1.383	-1.230	-1.053	-.783
11	-.628	-.930	.000.000	-1.023	-1.277	-1.071	-.823
12	-1.031	-.711	-.678	-.571	-.869	-.705	-.550
13	-.412	-.616	-.525	-.530	-.626	-.579	-.398
14	-.414	-.523	-.449	-.490	-.568	-.479	-.391
15	-.318	.049	.376	.300	.162	.184	-.347
16	.136	.104	.359	.374	.297	.298	-.220
17	.176	.104	.306	.343	.281	.291	-.181
18	.159	.103	.214	.280	.207	.181	-.153
19	-.039	-.100	-.019	-.032	-.151	-.074	-.209
20	-.617	-.620	-.446	-.643	-.711	-.674	-.441
21	-.966	-.922	-.790	-.717	-.893	-.777	-.527
22	-1.032	-.919	-.825	-.743	-.882	-.861	-.608
23	-.760	-.330	-.227	-.255	-.289	-.453	-.578
24	-.403	.028	.067	.093	.169	.063	-.275
25	.711	.620	.295	.234	.907	1.031	.785
26	-.026	-.118	.082	.223	.000.000	1.048	.851
27	-.415	-.344	-.148	.502	.614	.504	.398
28	-.239	-.160	.072	.515	.353	.262	.251
29	-.024	.161	.296	.356	.381	.348	.286
30	1.025	1.076	.521	1.006	1.073	1.074	.921
31	.424	.544	.477	.661	.680	.658	.513
32	.210	.389	.493	.548	.535	.482	.508
33	.041	.282	.375	.391	.390	.346	-.075

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.026	1.104	.122	-1.903	-1.271	-.729	-.682
2	.453	.477	-.285	-3.018	-2.759	-2.056	-1.591
3	.172	.134	-.332	-3.067	-2.989	-2.354	-2.023
4	-.185	-.221	-.413	-2.443	-2.589	-2.192	-1.890
5	-.587	-.741	-.793	-2.279	-2.531	-2.209	-1.808
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.656	-.885	-.976	-1.569	-1.492	-1.288	-1.028
11	-.709	-1.009	.000.000	-1.067	-1.404	-1.187	-1.004
12	-1.078	-.737	-.719	-.571	-.915	-.768	-.624
13	-.508	-.632	-.558	-.520	-.666	-.611	-.470
14	-.573	-.547	-.493	-.473	-.572	-.524	-.440
15	-.370	-.023	.301	.394	.231	.222	-.393
16	.049	.070	.248	.402	.288	.271	-.220
17	.107	.094	.309	.386	.287	.310	-.250
18	.128	.070	.221	.298	.185	.180	-.313
19	-.113	-.159	.008	-.051	-.149	-.090	-.207
20	-.795	-.868	-.505	-.625	-.721	-.710	-.594
21	-1.178	-1.005	-.880	-.754	-.962	-.888	-.705
22	-1.340	-1.025	-.841	-.667	-.828	-.888	-.676
23	-1.029	-.379	-.253	-.180	-.268	-.446	-.673
24	-.493	.084	.117	.103	.145	.056	-.341
25	.967	.998	.459	-.465	.435	.740	.598
26	.328	.340	.521	.633	.000.000	1.102	.870
27	-.288	-.137	.100	.661	.676	.774	.534
28	-.157	-.039	.226	.727	.559	.447	.328
29	-.022	.236	.386	.509	.473	.426	.324
30	.993	1.107	.708	1.046	1.066	1.095	.861
31	.396	.583	.540	.698	.656	.657	.524
32	.215	.437	.486	.582	.559	.493	.520
33	.052	.361	.349	.408	.435	.359	-.123

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.880	.875	-.033	-3.401	-2.664	-1.816	-1.523
2	.145	.039	-.589	-4.312	-3.990	-3.222	-2.621
3	-.218	-.375	-.914	-4.422	-4.067	-3.112	-2.612
4	-.589	-.772	-1.054	-4.012	-3.796	-3.211	-2.578
5	-.857	-1.147	-1.148	-3.214	-3.232	-2.886	-2.396
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.883	-1.144	-1.211	-2.004	-1.987	-1.782	-1.383
11	-.917	-1.153	.000.000	-1.159	-1.557	-1.390	-1.086
12	-1.118	-.786	-.740	-.532	-.899	-.786	-.593
13	-.616	-.687	-.569	-.507	-.658	-.631	-.469
14	-.776	-.686	-.551	-.512	-.616	-.610	-.517
15	-.298	-.080	.373	.518	.314	.280	-.417
16	-.047	.107	.340	.460	.340	.312	-.347
17	-.068	.096	.293	.409	.308	.303	-.324
18	-.010	.074	.248	.279	.210	.157	-.298
19	-.286	-.192	-.042	-.059	-.161	-.143	-.257
20	-.988	-.809	-.576	-.633	-.707	-.716	-.521
21	-1.377	-1.092	-.883	-.670	-.853	-.888	-.639
22	-1.608	-1.091	-.879	-.583	-.781	-.879	-.594
23	-1.333	-.456	-.318	-.173	-.220	-.424	-.517
24	-.554	.066	.105	.071	.118	-.075	-.278
25	1.057	1.165	.518	-1.426	-.450	.078	.094
26	.586	.817	.685	.548	.000.000	1.025	.820
27	-.002	.222	.450	.906	.977	.837	.583
28	-.081	.147	.349	.828	.688	.527	.407
29	-.032	.314	.452	.624	.554	.458	.390
30	1.031	1.148	.956	1.080	1.083	1.054	.900
31	.409	.559	.630	.784	.723	.678	.576
32	.202	.438	.540	.646	.594	.505	.533
33	0.	.360	.404	.475	.439	.309	-.022

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.680	.402	-.703	-5.684	-4.470	-3.112	-2.708
2	-.281	-.542	-1.348	-5.960	-5.258	-4.264	-3.660
3	-.593	-1.067	-1.731	-6.314	-5.754	-4.610	-3.753
4	-.921	-1.351	-1.812	-4.989	-4.677	-3.966	-3.322
5	-1.235	-1.769	-1.766	-4.146	-3.948	-3.474	-2.890
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.009	-1.410	-1.479	-2.102	-2.096	-1.728	-1.248
11	-.982	-1.416	.000.000	-1.282	-1.649	-1.453	-1.091
12	-1.343	-.947	-.897	-.591	-.981	-.822	-.643
13	-.703	-.774	-.643	-.573	-.612	-.662	-.493
14	-.888	-.721	-.640	-.486	-.506	-.587	-.481
15	-.305	-.182	.323	.593	.346	.303	-.523
16	-.209	.062	.303	.399	.311	.274	-.299
17	-.213	.058	.264	.349	.309	.262	-.281
18	-.248	.028	.186	.288	.208	.136	-.323
19	-.400	-.280	-.080	-.068	-.149	-.287	-.320
20	-1.254	-.956	-.761	-.707	-.726	-.704	-.444
21	-1.767	-1.301	-1.080	-.714	-.759	-.704	-.501
22	-2.313	-1.466	-1.253	-.748	-.701	-.936	-.640
23	-1.717	-.647	-.512	-.283	-.402	-.368	-.339
24	-.666	.045	.110	.010	-.105	-.325	-.338
25	1.169	1.218	.425	-2.431	-1.299	-.444	-.450
26	.873	1.103	.877	.422	.000.000	1.040	.578
27	.188	.457	.625	.953	1.046	.975	.540
28	.004	.239	.393	.966	.795	.578	.421
29	-.030	.302	.439	.801	.547	.482	.388
30	.934	1.085	1.032	1.024	1.035	1.034	.584
31	.457	.720	.725	.826	.774	.772	.570
32	.249	.499	.582	.676	.609	.534	.491
33	-.002	.358	.429	.483	.401	.311	-.069

Table 2. - Continued.

(c) $C_{T,S} = 0.60$, $q_s = 21.74$

$\alpha = 30°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.334	.109	-.994	-6.290	-4.776	-2.860	-2.494
2	-.736	-1.195	-1.901	-7.507	-5.916	-4.239	-3.336
3	-1.044	-1.648	-2.337	-7.081	-5.824	-4.172	-3.069
4	-1.389	-1.888	-2.110	-5.830	-5.112	-3.886	-2.799
5	-1.509	-2.108	-2.078	-4.489	-3.990	-3.042	-1.965
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.203	-1.631	-1.667	-2.263	-2.154	-1.656	-.948
11	-1.078	-1.490	*000.000	-1.278	-1.331	-.869	-.758
12	-1.398	-.969	-.946	-.567	-.796	-.622	-.556
13	-.956	-.848	-.749	-.548	-.603	-.452	-.386
14	-1.103	-.803	-.640	-.502	-.609	-.472	-.425
15	-.464	-.193	.326	.549	.312	.321	-.539
16	-.384	.128	.267	.468	.354	.319	-.491
17	-.370	.082	.343	.385	.279	.303	-.356
18	-.419	.035	.208	.300	.116	.057	-.389
19	-.674	-.374	-.246	-.149	-.390	-.083	-.376
20	-1.354	-.972	-.746	-.631	-.822	-.466	-.497
21	-2.112	-1.432	-1.192	-.659	-.847	-.362	-.451
22	-2.470	-1.459	-1.235	-.636	-.570	-.413	-.457
23	-1.930	-.947	-.601	-.271	-.489	-.445	-.441
24	-.759	.011	.143	-.058	-.239	-.306	-.398
25	1.177	1.140	.207	-3.329	-1.714	-.458	-1.270
26	.914	1.175	.941	.214	*000.000	.955	.138
27	.347	.892	.816	.955	1.073	.960	.375
28	.048	.384	.457	.960	.889	.647	.349
29	-.006	.384	.538	.697	.595	.456	.350
30	.918	1.158	1.079	1.048	1.052	1.074	.423
31	.417	.808	.762	.874	.759	.738	.561
32	.197	.532	.621	.657	.593	.522	.459
33	-.032	.395	.411	.464	.343	.286	-.129

$\alpha = 35°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.066	-.468	-1.650	-7.443	-5.495	-3.314	-2.518
2	-1.046	-1.631	-2.544	-8.123	-6.049	-3.730	-1.879
3	-1.311	-2.132	-2.738	-7.212	-5.763	-3.687	-2.032
4	-1.712	-2.387	-2.590	-6.275	-5.375	-3.521	-1.263
5	-1.767	-2.425	-2.400	-4.719	-3.944	-2.588	-.794
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.462	-1.476	-2.031	-2.380	-2.237	-1.407	-.664
11	-1.141	-1.533	*000.000	-1.194	-1.163	-.762	-.516
12	-1.455	-1.082	-.874	-.580	-.719	-.476	-.479
13	-1.023	-.875	-.648	-.548	-.542	-.385	-.402
14	-1.230	-.869	-.641	-.457	-.538	-.443	-.486
15	-.503	-.161	.395	.584	.334	.317	-.545
16	-.588	.106	.369	.476	.375	.362	-.369
17	-.595	.055	.363	.397	.310	.273	-.306
18	-.568	.032	.256	.300	.220	.181	-.227
19	-.716	-.339	-.143	-.120	-.196	-.099	-.323
20	-1.677	-1.145	-.869	-.741	-.735	-.619	-.609
21	-2.541	-1.610	-1.205	-.712	-.637	-.652	-.604
22	-2.804	-1.634	-1.260	-.766	-.635	-.508	-.403
23	-2.069	-.849	-.675	-.518	-.613	-.453	-.516
24	-.692	-.089	-.345	-.419	-.456	-.461	-.478
25	1.211	1.179	.223	-2.037	-1.205	-.388	-1.298
26	1.014	1.236	1.032	.644	*000.000	.987	-.030
27	.340	.709	.827	1.035	1.093	.951	.317
28	.058	.354	.496	.869	.786	.562	.298
29	-.069	.394	.513	.703	.595	.457	.364
30	.903	1.144	1.135	1.039	1.072	1.078	.324
31	.420	.813	.783	.861	.764	.733	.483
32	.153	.530	.534	.611	.547	.488	.447
33	-.060	.381	.428	.425	.327	.254	-.019

$\alpha = 40°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	-.308	-.919	-2.034	-3.674	-4.182	-2.749	-1.973
2	-1.587	-2.277	-2.855	-3.521	-4.713	-3.349	-1.380
3	-1.801	-2.564	-3.096	-2.364	-4.276	-3.479	-1.430
4	-2.049	-2.795	-2.841	-1.299	-3.794	-2.905	-.693
5	-2.027	-2.692	-2.471	-1.082	-1.976	-2.198	-.497
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.391	-1.770	-1.582	-.808	-.940	-.692	-.439
11	-1.129	-1.417	*000.000	-.921	-1.088	-.446	-.329
12	-1.356	-1.077	-.763	-.645	-1.009	-.410	-.314
13	-1.096	-.903	-.624	-.793	-.643	-.423	-.535
14	-1.448	-.900	-.659	-.749	-.714	-.447	-.530
15	-.629	-.220	.388	.553	.286	.350	-.466
16	-.749	.099	.359	.472	.316	.349	-.282
17	-.783	.053	.328	.405	.340	.412	-.222
18	-.724	-.002	.246	.207	.168	.179	-.228
19	-.811	-.321	-.220	-.083	-.134	-.129	-.184
20	-1.819	-1.207	-.944	-.794	-.659	-.604	-.568
21	-2.347	-1.355	-.768	-.611	-.594	-.658	-.584
22	-2.999	-1.563	-.886	-.654	-.657	-.502	-.479
23	-1.998	-.736	-.693	-.463	-.460	-.466	-.592
24	-.864	-.115	-.291	-.419	-.437	-.442	-.456
25	1.005	.902	-.024	-2.121	-1.676	-.549	-1.340
26	1.088	1.288	1.139	.429	*000.000	.857	-.077
27	.471	.917	1.053	1.023	1.086	.807	.184
28	.123	.518	.656	1.090	.847	.522	.321
29	-.104	.393	.523	.672	.540	.391	.351
30	.808	1.200	1.261	1.137	1.077	1.080	.350
31	.346	.795	.843	.807	.736	.710	.411
32	.121	.521	.588	.625	.552	.500	.258
33	-.011	.397	.471	.405	.293	.239	-.164

$\alpha = 45°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	-.617	-1.329	-2.472	-3.588	-4.565	-2.281	-1.044
2	-1.876	-2.730	-3.211	-3.080	-4.406	-2.535	-.493
3	-2.198	-3.207	-3.849	-2.265	-4.707	-2.649	-.481
4	-2.423	-3.185	-3.165	-.973	-3.493	-2.399	-.431
5	-2.267	-2.893	-2.886	-.971	-2.048	-1.416	-.305
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.523	-1.946	-1.741	-.864	-1.139	-.583	-.270
11	-1.353	-1.647	*000.000	-1.110	-1.192	-.327	-.272
12	-1.223	-1.037	-.720	-.622	-.848	-.329	-.309
13	-1.227	-.967	-.650	-.527	-.363	-.360	-.360
14	-1.474	-.816	-.570	-.578	-.480	-.335	-.321
15	-.666	-.203	.356	.534	.294	.365	-.183
16	-.822	.097	.313	.405	.334	.284	-.039
17	-.852	.055	.291	.380	.295	.342	-.063
18	-.758	.013	.224	.309	.224	.184	-.056
19	-1.025	-.426	-.280	-.125	-.166	-.085	-.218
20	-1.842	-1.130	-.732	-.729	-.574	-.416	-.353
21	-2.503	-1.406	-.933	-.626	-.574	-.448	-.481
22	-2.831	-1.397	-.854	-.509	-.489	-.427	-.455
23	-2.026	-.816	-.583	-.528	-.480	-.480	-.510
24	-.893	-.235	-.388	-.428	-.414	-.400	-.309
25	.855	.619	-.320	-2.439	-2.126	-.838	-1.040
26	1.044	1.254	1.150	.372	*000.000	.284	.026
27	.565	1.030	1.163	1.107	1.144	.595	.308
28	.127	.583	.698	1.084	.918	.441	.417
29	-.111	.424	.533	.694	.549	.415	.394
30	.678	1.102	1.155	1.050	1.013	.963	.167
31	.323	.778	.819	.812	.683	.638	.491
32	.125	.540	.653	.617	.512	.455	.433
33	.020	.360	.424	.412	.293	.237	.106

Table 2. - Concluded.

(d) $C_{T,S} = 0.30$, $q_s = 19.11$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.041	1.122	.724	.005	.553	.631	.587
2	.744	.825	.500	-.556	-.458	-.133	-.233
3	.499	.561	.226	-.500	-.861	-.541	-.453
4	.112	.025	-.297	-1.260	-1.221	-.950	-.903
5	-.361	-.433	-.810	-1.714	-1.655	-1.254	-1.156
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.674	-.890	-1.193	-1.529	-1.149	-1.089	-.909
11	-.808	-1.109	*000.000	-1.207	-1.477	-1.172	-1.126
12	-1.188	-.780	-.838	-.509	-1.004	-.761	-.654
13	-.489	-.670	-.592	-.590	-.735	-.484	-.424
14	-.483	-.571	-.549	-.519	-.664	-.501	-.386
15	-.268	.416	.206	.197	.036	.090	-.407
16	.102	.047	.132	.300	.167	.176	-.206
17	.152	.093	.096	.327	.193	.180	-.095
18	.133	.089	.085	.252	.129	.136	-.145
19	-.046	-.136	-.118	-.059	-.175	-.123	-.211
20	-.688	-.699	-.555	-.721	-.814	-.641	-.454
21	-1.029	-1.002	-.822	-.881	-1.066	-.762	-.580
22	-1.103	-1.010	-.791	-.880	-1.004	-.792	-.660
23	-.734	-.342	-.100	-.262	-.333	-.332	-.404
24	-.416	-.024	-.052	.055	.044	.063	-.214
25	.654	.715	.440	.802	1.198	1.220	1.088
26	-.196	-.312	-.047	.508	*000.000	.809	.625
27	-.533	-.498	-.468	.113	.257	.336	.244
28	-.328	-.291	-.142	.114	.050	.166	.115
29	-.093	.094	.212	.242	.209	.209	.230
30	.953	1.043	.414	1.068	1.028	.994	1.019
31	.395	.528	.370	.635	.596	.721	.549
32	.141	.290	.268	.570	.403	.441	.373
33	.033	.247	.281	.389	.342	.286	-.148

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.934	1.006	.442	-.805	-.534	-.217	-.217
2	.291	.252	-.199	-1.681	-1.448	-1.326	-1.131
3	.050	-.105	-.493	-2.109	-2.104	-1.924	-1.653
4	-.377	-.706	-1.126	-2.684	-2.593	-2.364	-2.076
5	-.828	-1.137	-1.465	-2.487	-2.426	-2.229	-1.914
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.911	-1.252	-1.603	-1.888	-1.582	-1.468	-1.293
11	-.890	-1.265	*000.000	-1.453	-1.558	-1.406	-1.347
12	-1.356	-.862	-.960	-.567	-1.014	-.890	-.708
13	-.582	-.761	-.669	-.646	-.791	-.705	-.478
14	-.661	-.675	-.603	-.592	-.701	-.649	-.470
15	-.340	.357	.238	.282	.134	.075	-.288
16	-.021	.005	.189	.309	.178	.127	-.291
17	.032	.069	.164	.326	.221	.170	-.173
18	.017	.054	.115	.242	.139	.057	-.229
19	-.156	-.220	-.121	-.133	-.246	-.252	-.249
20	-.894	-.812	-.596	-.737	-.819	-.830	-.771
21	-1.264	-1.084	-.855	-.848	-.982	-.858	-.775
22	-1.363	-1.000	-.816	-.742	-.833	-.845	-.692
23	-1.181	-.407	-.148	-.249	-.296	-.451	-.405
24	-.666	.040	-.007	.077	.049	-.115	-.340
25	.986	1.125	.782	.481	.841	.936	.896
26	.264	.260	.431	.397	*000.000	.907	.887
27	-.241	-.157	-.062	.422	.568	.500	.548
28	-.154	-.081	.094	.385	.310	.282	.344
29	-.042	.209	.331	.367	.340	.329	.349
30	.886	1.028	.652	.994	.962	.929	.844
31	.405	.588	.460	.706	.628	.605	.515
32	.141	.389	.384	.690	.483	.383	.409
33	-.002	.286	.302	.384	.334	.256	-.245

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.662	.628	-.470	-2.409	-1.900	-1.402	-1.367
2	-.208	-.461	-1.405	-3.456	-3.019	-2.664	-2.442
3	-.513	-.862	-1.656	-3.461	-3.260	-2.745	-2.476
4	-.875	-1.340	-1.869	-3.643	-3.404	-3.060	-2.826
5	-1.166	-1.715	-2.037	-3.201	-3.174	-2.880	-2.611
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.056	-1.544	-1.831	-2.223	-1.911	-1.761	-1.519
11	-1.030	-1.492	*000.000	-1.596	-1.786	-1.582	-1.408
12	-1.519	-.988	-.945	-.672	-1.086	-.893	-.738
13	-.719	-.850	-.740	-.665	-.808	-.684	-.538
14	-.843	-.784	-.689	-.608	-.700	-.582	-.572
15	-.243	.228	.330	.415	.219	.251	-.438
16	-.154	.039	.280	.415	.236	.256	-.205
17	-.141	.040	.200	.351	.202	.241	-.186
18	-.152	-.009	.151	.221	.117	.117	-.167
19	-.387	-.312	-.146	-.195	-.269	-.242	-.334
20	-1.173	-.997	-.702	-.795	-.850	-.771	-.669
21	-1.679	-1.276	-1.002	-.836	-.959	-.832	-.587
22	-1.915	-1.280	-.999	-.786	-.888	-.783	-.640
23	-1.625	-.500	-.284	-.260	-.273	-.391	-.556
24	-.709	0.	.080	.084	.059	-.041	-.354
25	1.137	1.252	.491	-.598	.230	.459	.417
26	.721	.939	.742	.644	*000.000	1.031	.969
27	.048	.215	.334	.647	.795	.800	.668
28	-.059	.076	.270	.544	.520	.511	.456
29	-.035	.204	.439	.505	.473	.466	.451
30	.927	1.144	.734	1.061	1.013	1.043	.814
31	.462	.693	.579	.838	.711	.716	.678
32	.141	.420	.472	.731	.514	.488	.499
33	-.010	.306	.370	.379	.347	.302	-.127

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.101	-.171	-1.785	-4.729	-4.256	-3.614	-3.209
2	-.990	-1.511	-2.698	-5.827	-5.114	-4.466	-4.005
3	-1.208	-1.802	-2.731	-5.591	-5.170	-4.433	-3.998
4	-1.516	-2.161	-2.736	-5.103	-4.694	-4.242	-3.855
5	-1.583	-2.296	-2.602	-3.998	-3.708	-3.386	-3.133
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.341	-2.019	-2.262	-2.685	-2.569	-2.396	-2.189
11	-1.395	-1.839	*000.000	-1.819	-2.108	-1.874	-1.640
12	-1.869	-1.208	-1.105	-.777	-1.190	-.980	-.718
13	-.956	-.982	-.808	-.758	-.864	-.727	-.672
14	-1.167	-.899	-.752	-.696	-.729	-.701	-.717
15	-.462	.112	.422	.514	.335	.328	-.380
16	-.396	.067	.333	.389	.271	.267	-.172
17	-.441	.047	.278	.339	.244	.226	-.161
18	-.465	.007	.216	.230	.141	.040	-.280
19	-.706	-.392	-.184	-.184	-.289	-.298	-.308
20	-1.472	-1.085	-.747	-.805	-.793	-.778	-.554
21	-2.270	-1.510	-1.192	-.941	-.940	-.857	-.603
22	-2.505	-1.370	-1.070	-.746	-.685	-.650	-.554
23	-2.123	-.613	-.373	-.277	-.266	-.396	-.581
24	-.903	0.	.067	.035	.024	-.131	-.251
25	1.064	1.180	-.948	-1.721	-.904	-.520	-.373
26	.980	1.268	.877	.566	*000.000	.957	.910
27	.398	.625	.749	.920	.959	.943	.820
28	.054	.311	.470	.751	.702	.664	.648
29	-.042	.250	.328	.626	.593	.585	.549
30	.898	1.251	1.057	1.100	1.047	1.024	1.030
31	.407	.752	.704	.882	.722	.720	.671
32	.151	.504	.562	.628	.541	.502	.538
33	-.070	.349	.427	.573	.392	.310	.044

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.866	-.275	-1.674	-3.052	-2.883	-2.689	-2.647
2	-1.148	-1.655	-2.456	-4.061	-3.874	-3.981	-3.780
3	-1.631	-2.311	-3.020	-3.580	-3.394	-3.509	-3.590
4	-1.844	-2.443	-2.661	-2.652	-2.663	-3.398	-3.591
5	-1.815	-2.409	-2.444	-1.913	-2.102	-2.368	-2.579
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.328	-1.800	-1.653	-.609	-.605	-.889	-1.238
11	-1.251	-1.693	*000.000	-.786	-.834	-.857	-.903
12	-1.183	-.986	-.885	-.649	-.707	-.740	-.714
13	-.924	-.892	-.694	-.647	-.597	-.662	-.611
14	-1.222	-.920	-.772	-.639	-.668	-.768	-.659
15	-.443	.010	.260	.413	.216	.224	-.508
16	-.566	.096	.239	.351	.204	.153	-.268
17	-.514	.073	.237	.265	.157	.104	-.335
18	-.531	.053	.112	.171	-.035	-.078	-.271
19	-.695	-.398	-.341	-.212	-.384	-.660	-.536
20	-1.567	-1.135	-1.020	-.953	-1.017	-1.057	-.788
21	-2.229	-1.438	-1.032	-1.113	-.993	-.858	-.706
22	-2.706	-1.510	-.932	-.800	-.770	-.684	-.671
23	-2.162	-.786	-.643	-.500	-.716	-.647	-.668
24	-.837	-.098	-.461	-.447	-.475	-.444	-.413
25	1.056	1.112	-.075	-1.277	-.797	-.530	-.506
26	1.145	1.357	.964	.770	*000.000	.943	.834
27	.496	.729	.752	.964	.970	.889	.845
28	.149	.426	.557	.765	.736	.684	.655
29	0.	.364	.472	.542	.488	.474	.486
30	.918	1.226	1.103	1.064	.980	.973	.903
31	.434	.781	.723	.808	.668	.672	.663
32	.213	.532	.591	.560	.449	.423	.485
33	.023	.374	.342	.306	.182	.177	-.109

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.704	-1.057	-2.536	-3.204	-2.991	-3.091	-3.195
2	-2.058	-2.611	-3.348	-3.335	-3.158	-3.745	-3.753
3	-2.130	-2.807	-3.349	-2.951	-2.923	-3.503	-3.285
4	-2.443	-3.146	-3.186	-2.287	-2.626	-3.322	-3.291
5	-2.148	-2.747	-2.507	-.922	-1.305	-2.091	-2.191
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.594	-1.996	-1.383	-.535	-.534	-.720	-.819
11	-1.164	-1.440	*000.000	-.532	-.501	-.579	-.631
12	-.974	-.941	-.630	-.465	-.555	-.751	-.750
13	-1.040	-.962	-.759	-.625	-.637	-.659	-.621
14	-1.294	-.859	-.702	-.544	-.595	-.601	-.632
15	-.559	-.007	.256	.430	.252	.242	-.311
16	-.655	.134	.248	.340	.240	.177	-.274
17	-.742	.094	.249	.330	.175	.178	-.231
18	-.711	.059	.212	.276	.031	.009	-.338
19	-.766	-.307	-.209	-.144	-.300	-.348	-.489
20	-1.800	-1.182	-.997	-.797	-.777	-.870	-.825
21	-2.586	-1.558	-1.076	-.741	-.740	-.837	-.834
22	-3.008	-1.513	-.837	-.736	-.811	-.733	-.713
23	-2.298	-.888	-.834	-.593	-.654	-.589	-.610
24	-.852	-.210	-.629	-.492	-.479	-.549	-.589
25	.854	.896	-.465	-1.272	-.874	-.778	-1.041
26	1.145	1.352	.985	.768	*000.000	.837	.593
27	.678	.997	1.039	.767	1.025	1.005	.844
28	.221	.521	.632	.845	.829	.740	.670
29	0.	.423	.528	.588	.526	.528	.495
30	.773	1.197	1.236	1.063	.943	.916	.805
31	.374	.783	.762	.702	.651	.634	.580
32	.171	.512	.589	.540	.466	.413	.458
33	.007	.355	.323	.278	.222	.144	-.232

Table 3.- Pressure coefficients for wing with propeller rotation down at tip, basic leading edge, $\delta_f = 40°$.

(a) $C_{T,S} = 0.90$, $q_s = 20.24$

$\alpha = 5°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.907	.752	.047	.156	.496	.738	-.000
2	.953	1.131	.872	.162	-.247	-.028	-.378
3	.902	1.072	.994	-.456	-.402	-.330	-.318
4	.804	.884	.968	-.773	-.806	-.617	-.338
5	.233	.479	.616	-.976	-1.019	-.826	-.398
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.042	-.150	-.216	-.758	-.773	-.401	-.187
11	-.264	-.533	.000.000	-.845	-.907	-.507	-.240
12	-.525	-.512	-.474	-.503	-.691	-.348	-.205
13	-.171	-.470	-.493	-.506	-.534	-.268	-.101
14	-.240	-.513	-.449	-.522	-.604	-.349	-.237
15	.054	-1.270	.341	.343	.370	.531	.195
16	.093	.115	.214	.164	.177	.246	.135
17	-.196	-.423	-.280	-.385	-.573	-.128	-.201
18	-.458	-.828	-.839	-1.098	-1.113	-.690	-.486
19	-.742	-1.213	-1.249	-1.483	-1.567	-.787	-.583
20	-.869	-1.244	-1.252	-1.589	-1.532	-.888	-.722
21	-.742	-.982	-1.100	-1.330	-1.436	-.826	-.635
22	-.575	-.529	-.531	-.857	-1.020	-.623	-.540
23	-.145	-.116	-.081	-.054	-.193	-.240	-.413
24	-.144	-.074	-.125	-.043	.084	.040	-.088
25	-.083	-.556	-1.450	.699	1.102	1.204	.470
26	-.486	-1.347	-1.672	.735	.000.000	.863	.526
27	-.628	-.872	-.928	.776	.446	.264	.267
28	-.134	-.302	-.075	.599	.362	.211	.171
29	.005	.279	.386	.487	.476	.493	.437
30	.516	.524	.571	.916	.952	.993	.276
31	.641	.715	.646	.974	1.030	1.162	.805
32	.416	.710	.569	.714	.765	.796	.803
33	.262	.485	.414	.536	.583	.593	.233

$\alpha = 10°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	1.032	.934	.219	-.325	.116	.474	-.242
2	.982	1.138	.816	-.950	-.722	-.341	-.494
3	.822	1.029	.918	-1.078	-1.009	-.609	-.611
4	.677	.745	.774	-1.161	-1.104	-.947	-.793
5	.089	.301	.388	-1.267	-1.324	-1.066	-.675
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.142	-.256	-.295	-.857	-.824	-.574	-.282
11	-.313	-.608	.000.000	-.895	-.968	-.579	-.309
12	-.571	-.521	-.541	-.686	-.630	-.324	-.173
13	-.243	-.498	-.507	-.515	-.535	-.267	-.181
14	-.267	-.568	-.542	-.601	-.614	-.313	-.253
15	-.041	-1.252	.359	.379	.379	.561	.144
16	.075	.098	.106	.142	.130	.234	.124
17	-.259	-.439	-.337	-.447	-.621	-.264	-.225
18	-.606	-.898	-.901	-1.006	-1.087	-.704	-.509
19	-.953	-1.340	-1.347	-1.514	-1.545	-.918	-.638
20	-.956	-1.364	-1.240	-1.556	-1.523	-.822	-.741
21	-.871	-1.132	-1.129	-1.341	-1.342	-.828	-.708
22	-.701	-.651	-.704	-.905	-.987	-.697	-.618
23	-.335	-.121	-.176	-.071	-.206	-.321	-.480
24	-.301	-.108	-.147	-.028	.042	.005	-.125
25	.002	-.291	-.940	.373	.963	1.114	.220
26	-.481	-1.110	-1.247	.751	.000.000	.944	.547
27	-.661	-.749	-.808	.784	.609	.361	.294
28	-.172	-.254	-.136	.652	.395	.269	.242
29	-.078	.285	.362	.461	.436	.468	.472
30	.550	.546	.528	.886	.902	.938	.247
31	.743	.903	.629	.959	1.020	1.062	.874
32	.448	.752	.608	.795	.818	.805	.853
33	.244	.442	.406	.581	.594	.578	.190

$\alpha = 15°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	1.035	1.048	.447	-.868	-.237	.337	-.293
2	.908	1.182	.961	-1.594	-1.082	-.638	-.759
3	.710	.978	.918	-1.643	-1.486	-.942	-.853
4	.367	.625	.744	-1.609	-1.549	-1.187	-.910
5	-.007	.142	.356	-1.569	-1.599	-1.231	-.734
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.260	-.337	-.324	-1.177	-.969	-.686	-.390
11	-.397	-.641	.000.000	-.970	-.996	-.639	-.394
12	-.650	-.525	-.475	-.596	-.655	-.391	-.228
13	-.285	-.534	-.485	-.567	-.552	-.347	-.203
14	-.357	-.566	-.459	-.585	-.537	-.330	-.294
15	-.178	-1.333	.306	.429	.422	.539	.093
16	.030	.098	.234	.144	.171	.265	.081
17	-.354	-.509	-.278	-.488	-.523	-.207	-.266
18	-.669	-.933	-.824	-.999	-1.034	-.761	-.580
19	-.975	-1.470	-1.344	-1.545	-1.513	-.975	-.774
20	-.971	-1.407	-1.320	-1.510	-1.501	-.967	-.810
21	-.956	-1.261	-1.078	-1.219	-1.258	-.745	-.703
22	-.712	-.750	-.600	-.790	-.868	-.680	-.651
23	-.487	-.168	-.046	-.101	-.218	-.368	-.538
24	-.416	-.092	-.054	-.054	-.088	-.030	-.120
25	.205	.003	-.526	.111	.923	1.104	.255
26	-.320	-.783	-.842	.665	.000.000	.947	.570
27	-.619	-.673	-.609	.712	.684	.390	.308
28	-.198	-.263	.018	.570	.456	.198	.150
29	-.041	.283	.459	.498	.528	.471	.470
30	.554	.610	.583	.885	.901	.873	.342
31	.705	.947	.641	.909	.995	.980	.776
32	.397	.713	.674	.884	.783	.793	.800
33	.172	.494	.494	.560	.603	.555	.208

$\alpha = 20°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	1.001	1.096	.368	-1.499	-.811	.110	-.620
2	.843	1.003	.880	-2.100	-1.490	-.815	-.941
3	.593	.841	.782	-2.270	-1.832	-1.137	-1.116
4	.338	.479	.632	-2.315	-2.075	-1.483	-1.323
5	-.105	.015	.202	-2.065	-2.063	-1.558	-1.086
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.313	-.471	-.459	-1.153	-1.118	-.696	-.505
11	-.422	-.747	.000.000	-.979	-1.040	-.605	-.417
12	-.700	-.617	-.572	-.646	-.654	-.305	-.265
13	-.361	-.605	-.536	-.530	-.508	-.285	-.311
14	-.409	-.634	-.565	-.574	-.555	-.316	-.338
15	-.176	-1.254	.422	.415	.387	.521	.040
16	.007	.043	.155	.130	.128	.236	.005
17	-.376	-.565	-.342	-.443	-.577	-.162	-.247
18	-.744	-1.075	-.889	-1.005	-1.003	-.600	-.624
19	-.976	-1.515	-1.356	-1.372	-1.347	-.853	-.697
20	-1.101	-1.617	-1.360	-1.454	-1.380	-.766	-.858
21	-1.001	-1.381	-1.118	-1.111	-1.159	-.762	-.841
22	-.898	-.970	-.847	-.809	-.865	-.658	-.860
23	-.570	-.190	-.148	-.033	-.177	-.347	-.603
24	-.542	-.156	-.089	.015	.050	-.007	-.104
25	.382	.243	-.388	-.231	.630	.960	.025
26	-.146	-.524	-.739	.887	.000.000	1.060	.406
27	-.512	-.518	-.465	.699	.787	.479	.236
28	-.143	-.180	.007	.786	.503	.290	.113
29	-.132	.263	.401	.524	.536	.509	.450
30	.710	.757	.554	.916	.860	.916	.224
31	.753	1.044	.719	.918	.933	1.026	.725
32	.440	.710	.589	.756	.785	.813	.844
33	.190	.467	.469	.594	.580	.554	.180

$\alpha = 25°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	1.115	1.171	.745	-2.267	-1.131	-.156	-.945
2	.820	.984	.845	-2.929	-2.114	-1.232	-1.331
3	.556	.817	.808	-3.027	-2.495	-1.584	-1.392
4	.221	.366	.505	-2.564	-2.737	-1.712	-1.271
5	-.157	-.104	.048	-2.223	-2.080	-1.531	-1.014
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.368	-.511	-.505	-1.488	-1.281	-.848	-.547
11	-.405	-.741	.000.000	-1.012	-1.080	-.623	-.429
12	-.739	-.621	-.604	-.823	-.877	-.371	-.296
13	-.342	-.613	-.526	-.565	-.593	-.259	-.191
14	-.447	-.620	-.530	-.548	-.559	-.312	-.342
15	-.138	-1.188	.354	.417	.388	.448	.056
16	.090	.105	.150	.190	.129	.255	.058
17	-.384	-.647	-.384	-.473	-.523	-.118	-.229
18	-.638	-1.188	-.995	-1.038	-1.028	-.690	-.625
19	-1.048	-1.681	-1.383	-1.319	-1.231	-.744	-.773
20	-1.150	-1.733	-1.479	-1.318	-1.271	-.803	-.948
21	-1.123	-1.560	-1.270	-1.094	-1.218	-.789	-.700
22	-.943	-1.011	-.742	-.691	-.741	-.653	-.836
23	-.737	-.194	-.116	-.101	-.153	-.251	-.403
24	-.447	-.125	-.083	.073	.036	-.079	-.112
25	.483	.519	-.031	-.579	.448	.927	.284
26	-.031	-.213	-.401	.754	.000.000	1.094	.530
27	-.467	-.334	-.356	.938	.868	.541	.350
28	-.144	-.121	.046	.743	.507	.338	.089
29	-.088	.315	.440	.570	.556	.502	.436
30	.749	1.066	.815	.918	.960	.938	.152
31	.491	1.150	.802	.976	.993	1.054	.625
32	.316	.827	.712	.984	.815	.856	.878
33	.146	.561	.517	.647	.604	.591	.244

$\alpha = 30°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	1.083	1.166	.818	-2.943	-1.485	-.467	-1.009
2	.883	.782	.792	-3.208	-2.178	-1.338	-1.393
3	.494	.543	.726	-3.372	-2.558	-1.663	-1.417
4	.085	.148	.464	-3.057	-2.494	-1.758	-1.198
5	-.258	-.276	-.005	-2.557	-2.279	-1.697	-1.220
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.411	-.620	-.594	-1.376	-1.249	-.833	-.534
11	-.491	-.823	.000.000	-1.040	-1.089	-.662	-.399
12	-.762	-.667	-.570	-.611	-.618	-.319	-.230
13	-.409	-.669	-.593	-.582	-.491	-.291	-.260
14	-.436	-.679	-.551	-.507	-.530	-.297	-.259
15	.009	-1.226	.390	.429	.380	.412	.101
16	.078	-.007	.203	.204	.162	.235	.055
17	-.460	-.756	-.350	-.468	-.535	-.228	-.304
18	-.965	-1.339	-1.000	-.907	-.943	-.582	-.498
19	-1.238	-1.835	-1.426	-1.257	-1.258	-.675	-.587
20	-1.278	-1.823	-1.439	-1.080	-1.133	-.676	-.717
21	-1.308	-1.731	-1.329	-.937	-1.126	-.710	-.693
22	-1.252	-1.266	-.879	-.676	-.819	-.711	-.610
23	-.941	-.262	-.107	-.149	-.194	-.343	-.431
24	-.500	-.193	-.033	.058	.011	-.107	-.200
25	.812	.706	.224	-1.210	.223	.822	-.174
26	.139	.055	.062	.636	.000.000	1.019	.411
27	-.395	-.242	-.150	.902	.893	.666	.209
28	-.095	-.074	.043	.716	.579	.343	.116
29	-.040	.287	.477	.614	.554	.494	.413
30	.912	1.015	.691	.884	.862	.898	.177
31	.949	1.088	.746	.903	.950	1.007	.570
32	.520	.768	.768	.936	.788	.814	.810
33	.184	.481	.467	.609	.546	.569	.227

Table 3. - Continued.

(a) $C_{T,s} = 0.90$, $q_s = 20.24$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.038	1.147	.638	-3.479	-1.976	-.775	-1.178
2	.444	.712	.580	-3.875	-2.759	-1.718	-1.527
3	.377	.441	.497	-4.028	-3.022	-2.081	-1.476
4	-.019	.019	.119	-3.513	-2.885	-2.110	-1.335
5	-.334	-.419	-.251	-2.729	-2.397	-1.708	-.960
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.448	-.698	-.698	-1.568	-1.350	-.830	-.451
11	-.499	-.885	*000.000	-1.023	-1.082	-.645	-.405
12	-.731	-.714	-.724	-.398	-.619	-.332	-.156
13	-.494	-.705	-.615	-.494	-.469	-.325	-.185
14	-.602	-.759	-.783	-.533	-.409	-.202	-.195
15	-.023	-1.192	.224	.478	.434	.487	.138
16	.049	-.069	.025	.205	.145	.326	.148
17	-.550	-.844	-.676	-.439	-.418	-.088	-.042
18	-1.039	-1.361	-1.097	-.885	-.930	-.463	-.324
19	-1.413	-1.882	-1.716	-1.008	-.751	-.326	-.256
20	-1.705	-2.047	-1.719	-.988	-1.030	-.562	-.616
21	-1.674	-1.835	-1.603	-.834	-.882	-.618	-.595
22	-1.459	-1.314	-1.045	-.613	-.819	-.459	-.298
23	-1.094	-.308	-.211	-.138	-.227	-.291	-.312
24	-.568	-.193	-.150	.009	-.119	-.094	-.137
25	.815	.422	.391	-1.285	.049	.675	-.495
26	.142	.261	.243	.628	*000.000	1.081	.284
27	-.347	-.121	-.196	.896	.928	.665	.298
28	-.115	.049	.102	.723	.633	.368	.187
29	-.059	.299	.361	.581	.561	.516	.443
30	.401	1.025	.544	.897	.852	.910	.155
31	.943	1.056	.612	.951	.938	1.046	.573
32	.520	.741	.580	.989	.772	.783	.808
33	.155	.442	.494	.620	.544	.515	.171

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.010	1.063	.595	-3.817	-2.201	-1.206	-2.048
2	.516	.541	.215	-4.450	-3.012	-2.267	-1.808
3	.284	.264	.071	-4.313	-3.325	-2.486	-1.736
4	-.136	-.177	-.202	-3.695	-2.914	-2.210	-1.319
5	-.468	-.560	-.560	-2.924	-2.562	-1.863	-1.086
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.582	-.802	-.995	-1.588	-1.408	-.908	-.379
11	-.605	-.959	*000.000	-.978	-1.076	-.599	-.355
12	-.938	-.746	-.651	-.365	-.598	-.364	-.209
13	-.621	-.766	-.877	-.407	-.338	-.235	-.256
14	-.737	-.791	-.885	-.396	-.450	-.313	-.199
15	-.088	-1.025	.299	.511	.403	.453	.033
16	-.038	-.044	.130	.284	.170	.257	.089
17	-.720	-.935	-.803	-.478	-.522	-.347	-.107
18	-1.302	-1.540	-1.220	-.888	-.977	-.613	-.388
19	-1.774	-2.018	-1.755	-.856	-.663	-.269	-.272
20	-2.019	-2.192	-1.990	-.969	-.945	-.512	-.605
21	-2.027	-2.022	-1.890	-.524	-.384	-.296	-.388
22	-1.639	-1.328	-1.152	-.511	-.612	-.262	-.348
23	-1.217	-.377	-.269	-.226	-.249	-.205	-.350
24	-.633	-.187	-.093	-.142	-.145	-.148	-.208
25	.711	.962	.493	-1.489	-.107	.518	-.816
26	.210	.398	.511	.582	*000.000	1.052	.096
27	-.377	-.008	.003	.987	.950	.701	.081
28	-.147	.015	.035	.756	.629	.359	.155
29	-.098	.314	.243	.611	.553	.462	.388
30	.805	1.093	.700	.969	.871	.901	.163
31	.920	1.089	.948	1.018	.970	1.078	.446
32	.424	.781	.577	.996	.771	.721	.779
33	.122	.486	.545	.625	.498	.438	.188

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.944	1.046	.585	-3.911	-2.453	-1.613	-1.817
2	.448	.471	.315	-4.386	-3.267	-2.510	-1.678
3	.196	.185	.016	-4.181	-3.367	-2.652	-1.588
4	-.248	-.254	-.208	-3.870	-3.234	-2.599	-1.311
5	-.528	-.647	-.648	-2.671	-2.339	-1.630	-.935
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.589	-.852	-.899	-1.526	-1.470	-1.029	-.433
11	-.692	-1.035	*000.000	-.805	-.966	-.258	-.089
12	-.993	-.750	-.654	-.348	-.408	-.172	-.109
13	-.715	-.807	-.690	-.321	-.393	-.210	-.074
14	-.885	-.746	-.440	-.474	-.220	-.149	
15	-.110	-1.120	.344	.537	.410	.430	.115
16	-.117	-.085	-.029	.268	.239	.235	.143
17	-.834	-.959	-.609	-.353	-.271	-.106	-.073
18	-1.415	-1.578	-1.271	-.613	-.706	-.509	-.285
19	-1.995	-2.206	-1.742	-.632	-.686	-.572	-.569
20	-2.270	-2.477	-2.024	-.789	-.585	-.452	-.477
21	-2.233	-2.196	-1.811	-.487	-.473	-.477	-.523
22	-1.870	-1.678	-1.296	-.590	-.328	-.331	-.388
23	-1.285	-.428	-.357	-.258	-.238	-.378	-.300
24	-.721	-.207	-.200	-.191	-.242	-.271	-.163
25	.889	.999	.777	-1.592	-.342	.200	-1.169
26	.207	.572	.666	.619	*000.000	.970	.019
27	-.321	.025	.171	.984	.951	.719	.272
28	-.194	.007	.141	.808	.662	.345	.250
29	-.117	.300	.417	.620	.504	.420	.354
30	.745	1.101	.765	.999	.877	.724	.263
31	.875	1.083	.927	1.000	.897	.980	.517
32	.341	.782	.635	.867	.750	.728	.851
33	.077	.484	.472	.559	.443	.386	.170

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.983	1.024	.649	-4.383	-2.880	-2.050	-1.958
2	.496	.517	.113	-3.999	-3.378	-2.873	-1.814
3	.230	.081	-.115	-4.756	-3.770	-2.871	-1.113
4	-.369	-.450	-.353	-3.688	-3.200	-2.134	-.480
5	-.675	-.816	-.858	-2.858	-2.355	-1.359	-.500
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.582	-.935	-.991	-1.269	-.956	-.385	-.234
11	-.734	-1.070	*000.000	-.571	-.461	-.364	-.321
12	-1.078	-.870	-.804	-.271	-.487	-.321	-.309
13	-.861	-.871	-.601	-.341	-.373	-.201	-.348
14	-1.077	-.989	-.764	-.411	-.399	-.351	-.507
15	-.193	-1.075	.187	.531	.423	.416	-.041
16	-.197	-.123	.084	.263	.199	.156	.025
17	-.999	-1.123	-.739	-.447	-.651	-.259	-.369
18	-1.529	-1.723	-1.295	-.769	-.556	-.575	-.603
19	-2.142	-2.403	-2.049	-.573	-.614	-.503	-.471
20	-2.346	-2.423	-1.810	-.479	-.528	-.432	-.531
21	-2.421	-2.388	-1.804	-.452	-.527	-.288	-.390
22	-2.054	-1.732	-1.393	-.505	-.318	-.373	-.385
23	-1.223	-.524	-.331	-.358	-.282	-.344	-.444
24	-.763	-.271	-.268	-.323	-.265	-.372	-.358
25	.701	1.052	.797	-1.726	-.423	-.164	-1.393
26	.243	.604	.641	.584	*000.000	.919	.054
27	-.389	.058	.084	1.002	.961	.697	.119
28	-.224	-.009	.131	.759	.635	.261	.089
29	-.185	.278	.395	.614	.520	.350	.254
30	.786	1.152	.831	.991	.882	.769	-.040
31	.827	1.125	1.030	1.022	.965	.985	.270
32	.361	.811	.789	.841	.775	.704	.654
33	.083	.498	.473	.611	.482	.376	.113

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.920	.923	.665	-3.625	-2.493	-1.870	-1.123
2	.228	.227	.125	-4.158	-3.328	-2.608	-.857
3	0.	-.093	-.217	-4.177	-3.484	-2.537	-.620
4	-.432	-.535	-.481	-3.885	-3.295	-2.187	-.449
5	-.721	-.926	-.842	-2.591	-2.352	-1.258	-.411
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.763	-.964	-.912	-.821	-.782	-.356	-.323
11	-.769	-1.134	*000.000	-.444	-.529	-.338	-.350
12	-.968	-.847	-.655	-.190	-.379	-.323	-.349
13	-.883	-.942	-.664	-.319	-.378	-.328	-.309
14	-1.072	-1.011	-.739	-.236	-.352	-.307	-.388
15	-.202	-1.070	.279	.533	.403	.442	-.119
16	-.311	-.175	.066	.372	.205	.140	.070
17	-1.062	-1.144	-.551	-.285	-.509	-.269	-.101
18	-1.727	-1.891	-1.382	-.538	-.500	-.442	-.253
19	-2.347	-2.540	-1.723	-.578	-.773	-.516	-.250
20	-2.719	-2.785	-2.179	-.692	-.498	-.306	-.341
21	-2.675	-2.569	-1.853	-.410	-.381	-.338	-.274
22	-2.254	-1.910	-1.343	-.375	-.375	-.263	-.341
23	-1.209	-.573	-.417	-.250	-.333	-.336	-.364
24	-.784	-.274	-.149	-.367	-.281	-.348	-.323
25	.762	1.092	1.035	-1.732	-.428	-.212	-1.064
26	.300	.721	.808	.622	*000.000	.736	-.135
27	-.410	.092	.179	1.031	.925	.624	.231
28	-.226	0.	.151	.804	.595	.332	.122
29	-.149	.297	.492	.625	.473	.381	.200
30	.708	1.079	.858	.979	.801	.754	.120
31	.917	1.115	1.040	1.003	.907	.923	.158
32	.337	.788	.771	.798	.652	.660	.650
33	.069	.504	.602	.597	.445	.381	.177

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.840	.852	.493	-2.729	-2.349	-1.894	-1.284
2	.141	.091	-.021	-3.631	-3.082	-2.391	-.449
3	-.140	-.265	-.257	-2.786	-3.152	-2.049	-.371
4	-.558	-.651	-.456	-2.386	-2.496	-1.626	-.430
5	-.805	-.994	-.719	-.774	-1.884	-.781	-.269
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.836	-1.007	-.939	-.577	-.692	-.319	-.204
11	-.834	-1.075	*000.000	-.423	-.438	-.254	-.138
12	-.854	-.885	-.606	-.148	-.401	-.239	-.131
13	-.920	-.911	-.528	-.275	-.280	-.095	-.034
14	-1.152	-.994	-.570	-.336	-.392	-.251	-.152
15	-.319	-.954	.271	.494	.432	.371	.044
16	-.370	-.180	.088	.321	.171	.134	.071
17	-1.041	-1.112	-.548	-.252	-.320	-.115	-.066
18	-1.786	-1.836	-1.176	-.553	-.480	-.389	-.202
19	-2.457	-2.434	-1.842	-.519	-.450	-.290	-.146
20	-2.597	-2.544	-1.677	-.427	-.422	-.364	-.291
21	-2.572	-2.376	-1.338	-.409	-.412	-.280	-.342
22	-2.145	-1.746	-1.006	-.335	-.325	-.345	-.420
23	-1.221	-.659	-.361	-.282	-.291	-.340	-.268
24	-.763	-.196	-.228	-.198	-.239	-.300	-.228
25	.740	1.100	.899	-1.375	-.506	-.706	-.894
26	.246	.722	.855	.616	*000.000	.649	.040
27	-.374	.127	.297	.934	.859	.436	.169
28	-.240	.011	.146	.724	.535	.374	.205
29	-.226	.282	.412	.559	.420	.401	.253
30	.609	1.074	.972	.954	.748	.618	.016
31	.877	1.035	.988	.947	.852	.937	.169
32	.276	.730	.762	.770	.689	.710	.447
33	.066	.493	.542	.495	.442	.316	.151

Table 3.- Continued.

(a) $C_{T,S} = 0.90$, $q_S = 20.24$

$\alpha = 65°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.913	.785	.324	-3.415	-2.481	-1.839	-.488
2	.082	-.003	-.012	-3.418	-2.973	-2.202	-.319
3	-.208	-.309	-.294	-2.864	-2.849	-1.882	-.358
4	-.621	-.742	-.450	-1.294	-2.446	-1.072	-.310
5	-.924	-1.058	-.726	-.760	-1.524	-.637	-.286
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-.477	-1.022	-.845	-.507	-.554	-.303	-.245
11	-.471	-1.101	.000,000	-.417	-.365	-.222	-.284
12	-.793	-.875	-.524	-.130	-.384	-.247	-.290
13	-1.003	-.933	-.593	-.273	-.215	-.238	-.296
14	-1.221	-1.079	-.681	-.286	-.264	-.273	-.334
15	-.348	-.897	.226	.476	.376	.418	-.086
16	-.384	-.144	.138	.256	.192	.089	-.213
17	-1.153	-1.148	-.493	-.172	-.206	-.038	-.216
18	-1.401	-1.835	-1.079	-.430	-.392	-.379	-.386
19	-2.605	-2.549	-1.561	-.530	-.430	-.410	-.584
20	-2.766	-2.438	-1.306	-.412	-.341	-.199	-.299
21	-2.822	-2.265	-1.202	-.310	-.373	-.244	-.291
22	-2.166	-1.765	-.947	-.300	-.313	-.233	-.284
23	-1.057	-.824	-.499	-.284	-.283	-.252	-.240
24	-.714	-.127	-.148	-.196	-.124	-.109	-.164
25	.893	1.104	.872	-1.099	-.609	-.625	-.907
26	.284	.798	.834	.581	.000,000	.372	-.140
27	-.402	.147	.339	.631	.909	.472	.102
28	-.271	.023	.147	.717	.537	.222	.030
29	-.254	.248	.432	.513	.418	.376	.100
30	.593	1.040	.430	.853	.682	.780	-.175
31	.845	1.041	.494	.784	.810	.865	.001
32	.785	.748	.781	.685	.617	.674	.302
33	.025	.448	.534	.454	.383	.291	.150

$\alpha = 70°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.750	.741	.468	-2.182	-1.937	-1.704	-.498
2	.011	-.093	-.122	-2.534	-2.796	-1.900	-.157
3	-.292	-.420	-.289	-2.633	-3.032	-1.846	-.180
4	-.685	-.797	-.366	-1.244	-2.446	-.703	-.341
5	-1.013	-1.134	-.818	-.577	-1.892	-.416	-.109
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-.995	-1.071	-.872	-.492	-.456	-.236	-.153
11	-.980	-1.020	.000,000	-.354	-.327	-.247	-.164
12	-.879	-.815	-.457	-.105	-.374	-.362	-.244
13	-1.075	-.953	-.491	-.120	-.343	-.219	-.241
14	-1.197	-.933	-.434	-.240	-.312	-.217	-.244
15	-.388	-.938	.341	.425	.315	.394	-.246
16	-.378	-.067	.149	.274	.174	.051	-.131
17	-1.046	-1.038	-.354	-.090	-.279	-.059	-.115
18	-1.777	-1.732	-1.013	-.463	-.409	-.254	-.318
19	-2.406	-2.235	-1.285	-.430	-.517	-.252	-.323
20	-2.549	-2.089	-1.054	-.329	-.425	-.372	-.340
21	-2.476	-1.959	-1.060	-.354	-.381	-.239	-.483
22	-2.010	-1.577	-.864	-.315	-.295	-.330	-.418
23	-.999	-.581	-.315	-.217	-.172	-.170	-.256
24	-.712	-.138	-.204	-.193	-.157	-.169	-.169
25	.659	1.122	.732	-1.066	-.431	-.762	-.639
26	.160	.803	.847	.693	.000,000	.390	-.177
27	-.445	.164	.290	.703	.820	.358	.059
28	-.308	.003	.150	.639	.482	.214	-.059
29	-.277	.241	.399	.519	.357	.213	.057
30	.545	1.046	.918	.896	.643	.480	-.176
31	.570	1.027	1.002	.778	.754	.742	-.134
32	.311	.849	.715	.628	.558	.600	.304
33	.038	.465	.519	.438	.349	.268	.156

$\alpha = 75°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.686	.733	.262	-2.768	-1.999	-1.579	-.133
2	-.047	-.049	-.084	-2.414	-2.479	-1.412	-.147
3	-.242	-.378	-.198	-2.285	-2.799	-1.354	-.174
4	-.748	-.782	-.384	-1.407	-2.203	-.539	.039
5	-1.060	-1.082	-.724	-.716	-1.404	-.286	-.067
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-1.000	-1.040	-.787	-.380	-.398	-.140	-.050
11	-1.100	-1.192	.000,000	-.323	-.277	-.061	-.151
12	-.704	-.859	-.439	-.080	-.293	-.187	-.176
13	-1.027	-.884	-.462	-.242	-.234	-.204	-.295
14	-1.193	-.921	-.457	-.217	-.246	-.082	-.018
15	-.340	-.891	.270	.429	.341	.371	-.128
16	-.351	-.070	.214	.353	.245	.272	.041
17	-1.159	-1.082	-.381	-.030	-.164	-.031	-.005
18	-1.773	-1.599	-.922	-.334	-.336	-.302	-.185
19	-2.476	-2.223	-1.255	-.401	-.416	-.289	-.372
20	-2.601	-2.246	-1.275	-.373	-.290	-.122	-.326
21	-2.412	-1.911	-1.132	-.313	-.278	-.177	-.245
22	-1.962	-1.591	-.890	-.282	-.162	-.159	-.288
23	-.973	-.575	-.394	-.221	-.209	-.131	-.087
24	-.719	-.144	-.276	-.141	-.140	-.176	-.171
25	.749	1.184	.810	-1.048	-.222	-.859	-.542
26	.210	.833	.748	.756	.000,000	.176	-.027
27	-.425	.173	.381	.752	.803	.411	.093
28	-.323	.021	.175	.643	.507	.248	.083
29	-.291	.258	.411	.528	.355	.197	-.039
30	.449	1.113	.915	.977	.687	.553	-.096
31	.669	1.087	.919	.904	.787	.779	-.056
32	.238	.742	.754	.606	.584	.644	.226
33	.053	.452	.565	.441	.347	.244	.101

$\alpha = 80°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.662	.734	.264	-3.117	-2.293	-1.816	-.487
2	-.057	-.093	-3.320	-2.682	-1.523	-.303	
3	-.417	-.420	-.271	-3.570	-3.114	-1.251	-.119
4	-.788	-.894	-.707	-3.336	-2.819	-1.188	-.389
5	-1.093	-1.106	-.586	-1.661	-1.557	-.274	-.234
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-1.101	-1.041	-.700	-.346	-.468	-.276	-.254
11	-1.154	-1.219	.000,000	-.339	-.456	-.178	-.283
12	-.755	-.859	-.447	-.016	-.213	-.178	-.179
13	-1.074	-.970	-.550	-.338	-.297	-.187	-.210
14	-1.097	-.935	-.479	-.232	-.252	-.096	-.249
15	-.347	-.907	.237	.435	.338	.346	-.191
16	-.408	-.097	.120	.248	.193	.130	-.074
17	-1.039	-.967	-.377	-.111	-.235	-.160	-.356
18	-1.739	-1.795	-1.045	-.524	-.424	-.338	-.294
19	-2.348	-2.432	-1.594	-.630	-.502	-.377	-.344
20	-2.655	-2.235	-1.253	-.391	-.411	-.419	-.497
21	-2.350	-1.954	-.905	-.293	-.286	-.173	-.249
22	-1.862	-1.447	-.847	-.187	-.267	-.202	-.210
23	-.829	-.613	-.517	-.258	-.292	-.295	-.251
24	-.708	-.111	-.127	-.215	-.285	-.275	-.331
25	.548	1.096	.717	-1.115	-.188	-.932	-.477
26	.207	.785	.744	.632	.000,000	.138	-.219
27	-.563	.128	.255	.633	.764	.141	-.181
28	-.340	-.014	.131	.644	.421	.140	.041
29	-.351	.242	.354	.543	.312	.180	.089
30	.499	1.010	.851	.833	.551	.420	-.079
31	.557	1.073	.906	.812	.686	.558	-.051
32	.235	.716	.677	.570	.537	.494	.194
33	.026	.468	.545	.437	.308	.191	-.054

Table 3. - Continued.

(b) $C_{T,S} = 0.80$, $q_s = 20.03$

$\alpha = 5°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	1.116	1.008	.408	.016	-.429	-.719	-.868
2	1.115	1.144	.865	-.675	-.440	-.317	-.297
3	.913	1.042	.697	-.702	-.844	-.515	-.469
4	.594	.042	.726	-1.154	-1.091	-.823	-.650
5	.156	.303	.404	-1.148	-1.274	-.971	-.451
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.144	-.441	-.442	-.972	-.950	-.680	-.410
11	-.470	-.694	.000.000	-1.044	-1.113	-.807	-.488
12	-.669	-.575	-.511	-.459	-.794	-.517	-.268
13	-.283	-.617	-.577	-.681	-.690	-.495	-.290
14	-.322	-.579	-.616	-.678	-.700	-.465	-.314
15	-.052	-.624	.394	.350	.344	.428	.183
16	.140	.097	.130	.148	.132	.189	.115
17	-.300	-.538	-.383	-.482	-.664	-.431	-.249
18	-.758	-.986	-.957	-1.199	-1.295	-1.136	-.868
19	-1.148	-1.493	-1.514	-1.746	-1.869	-1.346	-.811
20	-1.246	-1.463	-1.430	-1.719	-1.806	-1.440	-1.004
21	-1.109	-1.217	-1.097	-1.290	-1.518	-1.112	-.792
22	-.805	-.632	-.705	-.932	-1.065	-.907	-.808
23	-.335	-.147	-.198	-.136	-.208	-.418	-.553
24	-.386	-.150	-.207	-.043	.003	.028	-.153
25	.207	-.131	-.701	.588	1.105	1.107	.719
26	-.472	-.928	-.940	.770	.000.000	.892	.569
27	-.621	-.665	-.551	.574	.550	.313	.324
28	-.182	-.211	-.014	.449	.374	.224	.198
29	.083	.269	.391	.408	.494	.433	.454
30	.898	.647	.529	.914	.965	.968	.297
31	1.114	.904	.592	1.000	1.110	1.161	.778
32	.616	.723	.550	.709	.807	.807	.833
33	.294	.464	.367	.547	.610	.571	.186

$\alpha = 10°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	1.119	1.173	.608	-.822	-.324	.229	.077
2	.905	1.031	.792	-1.409	-1.134	-.693	-.577
3	.718	.878	.718	-1.615	-1.613	-.984	-.756
4	.357	.518	.561	-1.731	-1.848	-1.194	-.917
5	-.070	.013	.133	-1.680	-1.716	-1.311	-.991
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.353	-.444	-.457	-1.249	-1.078	-.788	-.489
11	-.509	-.788	.000.000	-1.084	-1.177	-.787	-.536
12	-.770	-.614	-.611	-.483	-.770	-.563	-.350
13	-.359	-.626	-.594	-.615	-.672	-.504	-.368
14	-.419	-.588	-.499	-.590	-.641	-.482	-.369
15	-.043	-.664	.439	.407	.383	.429	.039
16	.108	.047	.196	.211	.140	.228	.053
17	-.398	-.584	-.320	-.479	-.667	-.390	-.333
18	-.882	-1.054	-.872	-1.009	-1.185	-.952	-.705
19	-1.309	-1.553	-1.352	-1.449	-1.593	-1.211	-.802
20	-1.416	-1.597	-1.366	-1.476	-1.668	-1.428	-1.041
21	-1.289	-1.323	-1.117	-1.188	-1.433	-1.207	-.895
22	-.982	-.774	-.643	-.729	-.930	-.914	-.797
23	-.533	-.154	-.114	-.104	-.140	-.339	-.585
24	-.488	-.088	-.106	-.090	-.087	.032	-.138
25	.411	.243	-.159	.252	.854	1.055	.621
26	-.279	-.454	-.340	.786	.000.000	1.040	.758
27	-.524	-.344	-.199	.802	.721	.499	.336
28	-.196	-.108	.156	.550	.408	.321	.257
29	.072	.344	.410	.516	.540	.492	.507
30	.892	.868	.653	.968	.997	1.008	.320
31	.986	1.043	.682	.959	1.040	1.075	.742
32	.570	.756	.628	.855	.822	.770	.894
33	.236	.515	.506	.681	.652	.631	.201

$\alpha = 15°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	1.141	1.239	.697	-2.059	-1.303	-.545	-.488
2	.794	.916	.647	-2.698	-2.023	-1.448	-1.244
3	.575	.663	.530	-2.621	-2.352	-1.545	-1.196
4	.132	.244	.253	-2.554	-2.245	-1.763	-1.334
5	-.267	-.223	-.041	-2.297	-2.346	-1.813	-1.344
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.508	-.694	-.379	-1.421	-1.082	-.696	-.396
11	-.589	-.907	.000.000	-1.160	-1.300	-.917	-.597
12	-.429	-.703	-.714	-.429	-.888	-.627	-.376
13	-.501	-.713	-.612	-.596	-.684	-.537	-.251
14	-.609	-.732	-.629	-.409	-.696	-.511	-.326
15	-.018	-.642	.450	.420	.437	.422	.128
16	.049	.051	.144	.131	.070	.133	.064
17	-.508	-.698	-.345	-.495	-.655	-.374	-.291
18	-1.112	-1.280	-.958	-1.090	-1.240	-1.137	-.688
19	-1.447	-1.647	-1.404	-1.420	-1.613	-1.304	-.864
20	-1.634	-1.926	-1.475	-1.462	-1.638	-1.288	-1.109
21	-1.543	-1.594	-1.245	-1.156	-1.387	-1.249	-.960
22	-1.312	-1.034	-.841	-.808	-.918	-.954	-.878
23	-.654	-.199	-.228	-.171	-.184	-.467	-.613
24	-.540	-.186	-.134	-.082	-.072	-.016	-.180
25	.631	.557	.038	-.470	.617	.979	.509
26	-.049	-.171	-.075	.644	.000.000	1.032	.756
27	-.451	-.283	-.081	.809	.915	.693	.488
28	-.176	-.083	.154	.676	.619	.394	.338
29	.068	.328	.466	.562	.571	.499	.483
30	.825	1.052	.660	.961	1.010	.969	.250
31	.978	1.112	.709	.957	1.017	1.046	.751
32	.566	.794	.751	1.000	.881	.843	.930
33	.228	.554	.525	.636	.638	.584	.189

$\alpha = 20°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	1.147	1.154	.654	-3.141	-2.030	-.941	-.988
2	.885	.887	.444	-3.782	-2.839	-1.947	-1.696
3	.400	.363	.289	-3.843	-3.228	-2.142	-1.787
4	-.060	-.098	-.055	-3.359	-3.020	-2.328	-1.774
5	-.427	-.613	-.402	-2.657	-2.628	-2.159	-1.643
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.570	-.783	-.733	-1.717	-1.648	-1.277	-.963
11	-.620	-.990	.000.000	-1.212	-1.372	-1.044	-.795
12	-.973	-.782	-.795	-.517	-.886	-.661	-.515
13	-.566	-.813	-.695	-.521	-.734	-.580	-.414
14	-.681	-.785	-.703	-.597	-.746	-.595	-.436
15	-.082	-.670	.368	.451	.394	.431	.090
16	.011	-.041	.118	.144	.083	.109	-.010
17	-.574	-.801	-.447	-1.571	-1.825	-.414	-.397
18	-1.265	-1.427	-1.154	-1.060	-1.315	-1.152	-.822
19	-1.646	-1.903	-1.663	-1.365	-1.704	-1.369	-1.013
20	-1.888	-2.055	-1.647	-1.301	-1.777	-1.514	-1.242
21	-1.855	-1.749	-1.524	-.995	-1.569	-1.223	-1.044
22	-1.573	-1.167	-.985	-.715	-.944	-1.011	-.988
23	-1.050	-.276	-.151	-.188	-.151	-.359	-.743
24	-.604	-.180	-.170	-.014	-.092	-.028	-.186
25	.785	.855	.551	-1.298	.096	.676	.298
26	.194	.188	.393	.607	.000.000	1.076	.687
27	-.317	-.126	.089	.608	.975	.792	.407
28	-.153	.013	.210	.868	.857	.422	.199
29	.050	.334	.486	.605	.625	.524	.419
30	.842	1.056	.624	.951	.953	.959	.078
31	.994	1.102	.827	1.001	.999	1.038	.526
32	.538	.732	.703	.958	.821	.820	.844
33	.262	.540	.529	.673	.632	.559	.213

$\alpha = 25°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	1.051	1.086	.656	-4.155	-2.718	-1.485	-1.424
2	.470	.453	.133	-4.613	-3.679	-2.652	-2.140
3	.232	.189	.107	-4.782	-4.044	-2.950	-2.348
4	-.235	-.330	-.265	-4.219	-3.756	-2.979	-2.333
5	-.558	-.803	-.681	-3.322	-3.138	-2.569	-1.939
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.646	-.887	-.948	-1.664	-1.827	-1.474	-1.000
11	-.649	-1.100	.000.000	-1.277	-1.534	-1.217	-.827
12	-1.040	-.812	-.782	-.581	-.904	-.734	-.507
13	-.694	-.813	-.676	-.574	-.754	-.631	-.433
14	-.823	-.817	-.670	-.407	-.699	-.596	-.455
15	-.052	-.684	.326	.520	.450	.430	.047
16	-.065	-.034	.047	.181	.082	.054	-.041
17	-.749	-.918	-.520	-.522	-.700	-.396	-.378
18	-1.422	-1.563	-1.252	-.988	-1.249	-1.240	-.850
19	-1.947	-2.176	-1.939	-1.224	-1.696	-1.406	-.997
20	-2.421	-2.422	-2.115	-1.225	-1.787	-1.644	-1.360
21	-2.173	-1.931	-1.550	-.866	-1.364	-1.255	-.999
22	-1.647	-1.308	-1.092	-.640	-.899	-1.044	-.918
23	-1.311	-.311	-.226	-.217	-.195	-.442	-.641
24	-.694	-.205	-.177	-.003	.081	-.095	-.180
25	.449	1.112	.804	-1.923	-.997	.317	-.243
26	.356	.589	.740	.500	.000.000	1.075	.496
27	-.210	-.116	.243	.434	1.021	.803	.378
28	-.109	-.125	.236	.883	.733	.464	.234
29	.032	.426	.496	.692	.619	.510	.456
30	.830	1.190	.862	.973	.937	.951	.104
31	.940	1.166	1.041	.999	1.004	1.045	.568
32	.562	.866	.817	1.018	.859	.793	.862
33	.264	.573	.526	.679	.626	.514	.233

$\alpha = 30°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.991	.929	.420	-4.604	-3.012	-1.667	-1.878
2	.240	.153	-.182	-5.483	-4.262	-2.855	-2.171
3	-.009	-.178	-.302	-5.249	-4.443	-2.901	-2.125
4	-.470	-.703	-.601	-4.961	-4.232	-3.042	-2.040
5	-.800	-1.045	-.892	-3.747	-3.453	-2.692	-1.795
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.787	-1.091	-1.128	-2.021	-1.859	-1.337	-.638
11	-.786	-1.120	.000.000	-1.164	-1.352	-.908	-.402
12	-1.160	-.886	-.913	-.606	-.789	-.545	-.298
13	-.803	-.915	-.632	-.615	-.638	-.422	-.257
14	-1.027	-.910	-.737	-.606	-.679	-.470	-.386
15	-.102	-.703	.517	.592	.473	.492	.049
16	-.251	-.087	.047	.200	.117	.104	.026
17	-.924	-1.001	-.530	-.472	-.659	-.377	-.231
18	-1.651	-1.670	-1.234	-.950	-1.133	-.880	-.619
19	-2.375	-2.382	-2.006	-1.147	-1.269	-.766	-.577
20	-2.650	-2.388	-2.061	-1.006	-1.201	-.542	-.401
21	-2.661	-2.105	-1.760	-.807	-1.153	-.498	-.270
22	-2.328	-1.571	-1.302	-.662	-.693	-.472	-.292
23	-1.444	-.368	-.096	-.227	-.311	-.450	-.287
24	-.922	-.231	-.093	-.015	-.176	-.298	-.218
25	1.035	1.184	.906	-2.032	-.888	.242	-.824
26	.530	.847	.884	.468	.000.000	1.068	.304
27	-.125	.277	.581	.995	1.030	.823	.255
28	-.100	.191	.331	.990	.769	.460	.141
29	.018	.438	.556	.696	.607	.453	.383
30	.765	1.156	.913	.987	.923	.949	.040
31	.861	1.162	.966	1.055	1.019	1.020	.691
32	.519	.851	.814	.901	.797	.775	.892
33	.288	.595	.735	.751	.642	.532	.213

Table 3. - Continued.

(b) $C_{T,S} = 0.80$, $q_S = 20.03$

$\alpha = 35°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.048	.784	.241	-5.369	-3.546	-2.006	-2.013
2	.044	-.173	-.494	-6.059	-4.425	-3.180	-2.370
3	-.294	-.582	-.773	-5.970	-4.644	-3.207	-2.290
4	-.642	-.976	-.996	-5.148	-4.194	-3.170	-2.196
5	-.943	-1.281	-1.121	-3.789	-3.303	-2.445	-1.941
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.910	-1.237	-1.234	-1.988	-1.894	-1.250	-.631
11	-.925	-1.305	.000.000	-1.259	-1.381	-.788	-.458
12	-1.250	-.943	-.971	-.613	-.740	-.448	-.352
13	-1.012	-1.001	-.745	-.538	-.574	-.364	-.312
14	-1.215	-1.054	-.844	-.623	-.645	-.475	-.384
15	-.224	-.592	.335	.578	.495	.484	-.010
16	-.377	-.147	.055	.218	.134	.078	-.044
17	-1.179	-1.178	-.825	-.479	-.655	-.302	-.309
18	-2.005	-1.955	-1.594	-1.018	-1.044	-.714	-.609
19	-2.828	-2.005	-2.328	-1.242	-1.354	-.750	-.517
20	-3.018	-2.550	-2.095	-1.049	-1.026	-.491	-.420
21	-3.094	-2.458	-1.892	-.879	-1.059	-.403	-.443
22	-2.867	-1.644	-1.293	-.724	-.898	-.511	-.440
23	-1.466	-.495	-.250	-.263	-.343	-.395	-.339
24	-1.062	-.314	-.127	-.076	-.233	-.305	-.304
25	1.855	1.217	.851	-2.831	-1.073	.137	-1.089
26	.587	.936	1.024	.400	.000.000	1.188	.037
27	-.047	.340	.575	.986	1.062	.844	.187
28	-.107	.144	.322	.915	.742	.446	.167
29	-.079	.400	.524	.735	.643	.476	.388
30	.716	1.198	1.193	1.053	.970	.905	-.001
31	.893	1.273	1.150	1.200	1.126	1.180	.445
32	.443	.804	.851	.898	.740	.783	.723
33	.141	.544	.579	.701	.565	.491	.065

$\alpha = 40°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.744	.481	-.055	-6.248	-4.051	-1.878	-2.073
2	-.199	-.504	-.776	-6.610	-4.870	-3.162	-2.236
3	-.523	-.929	-1.192	-6.480	-5.048	-3.235	-1.700
4	-.867	-1.195	-1.494	-5.201	-4.102	-2.761	-1.396
5	-1.184	-1.551	-1.457	-4.073	-3.514	-2.372	-.939
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.062	-1.419	-1.484	-2.028	-1.746	-.933	-.438
11	-1.028	-1.433	.000.000	-1.199	-1.064	-.512	-.371
12	-1.353	-1.085	-.928	-.625	-.627	-.385	-.411
13	-1.116	-1.080	-.833	-.580	-.591	-.290	-.280
14	-1.425	-1.124	-.988	-.554	-.634	-.370	-.362
15	-.393	-.712	.617	.629	.484	.625	-.000
16	-.583	-.179	.044	.258	.218	.285	-.049
17	-1.358	-1.314	-.779	-.498	-.655	-.180	-.209
18	-2.179	-2.000	-1.598	-.962	-1.047	-.554	-.583
19	-2.883	-2.594	-2.140	-.941	-.890	-.388	-.421
20	-3.581	-3.033	-2.371	-1.181	-.966	-.557	-.550
21	-3.543	-2.736	-2.144	-.766	-.526	-.384	-.339
22	-3.163	-2.154	-1.541	-.650	-.340	-.385	-.473
23	-1.551	-.573	-.402	-.495	-.347	-.245	-.253
24	-1.135	-.384	-.196	-.258	-.276	-.216	-.283
25	1.190	1.215	.813	-3.242	-1.390	-.107	-1.442
26	.637	1.094	1.139	.306	.000.000	1.153	-.081
27	-.052	.515	.720	1.080	1.124	.887	.140
28	-.141	.259	.401	.923	.789	.462	.217
29	-.113	.416	.601	.760	.599	.537	.281
30	.851	1.159	1.115	1.058	.962	.969	.005
31	.789	1.193	1.108	1.104	1.004	1.184	.196
32	.437	.859	.936	1.079	.821	.789	.674
33	.171	.574	.681	.736	.548	.494	.051

$\alpha = 45°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.655	.319	-.344	-3.401	-3.475	-2.124	-2.195
2	-.261	-.659	-.976	-3.198	-3.751	-2.891	-1.752
3	-.644	-1.042	-1.220	-2.941	-4.096	-3.241	-1.548
4	-1.197	-1.515	-1.435	-2.056	-3.842	-2.909	-.567
5	-1.338	-1.716	-1.557	-1.562	-2.802	-1.824	-.226
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.020	-1.305	-1.242	-.804	-.659	-.740	-.417
11	-.974	-1.333	.000.000	-.819	-.678	-.448	-.378
12	-.967	-.918	-.849	-.510	-.609	-.307	-.188
13	-1.166	-1.072	-.766	-.491	-.469	-.329	-.258
14	-1.435	-1.088	-.699	-.591	-.528	-.447	-.389
15	-.342	-.658	.393	.596	.442	.482	-.133
16	-.519	-.156	.185	.284	.179	.014	.004
17	-1.427	-1.334	-.846	-.406	-.581	-.189	-.326
18	-2.343	-2.166	-1.396	-.994	-1.111	-.818	-.683
19	-3.055	-2.751	-2.002	-1.014	-.811	-.655	-.454
20	-3.410	-2.732	-1.652	-.701	-.509	-.532	-.431
21	-3.530	-2.781	-1.942	-.435	-.528	-.350	-.239
22	-2.960	-2.162	-1.514	-.502	-.362	-.401	-.256
23	-1.398	-.716	-.612	-.439	-.308	-.309	-.211
24	-1.189	-.278	-.184	-.351	-.322	-.301	-.326
25	1.187	1.229	.745	-1.654	-.974	-.312	-1.473
26	.699	1.060	1.012	.606	.000.000	.877	-.019
27	.029	.536	.699	1.044	1.070	.717	.259
28	-.074	.266	.381	1.004	.727	.409	.145
29	-.102	.425	.567	.752	.575	.386	.330
30	.588	1.145	1.113	1.076	.918	.833	.084
31	.719	1.128	1.120	1.060	.954	1.028	.179
32	.448	.850	.926	.938	.769	.702	.619
33	.163	.528	.628	.651	.508	.384	.031

$\alpha = 50°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.527	.222	-.370	-2.843	-3.142	-1.838	-.900
2	-.431	-.777	-1.015	-2.528	-2.895	-2.819	-.919
3	-.715	-1.128	-1.236	-2.073	-2.927	-2.724	-.611
4	-1.084	-1.374	-1.115	-.877	-2.303	-2.109	-.309
5	-1.371	-1.684	-1.371	-.601	-1.537	-1.325	-.442
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.059	-1.302	-1.067	-.512	-.621	-.462	-.221
11	-1.010	-1.274	.000.000	-.568	-.833	-.372	-.223
12	-.975	-.938	-.866	-.444	-.629	-.403	-.328
13	-1.227	-1.045	-.812	-.516	-.520	-.422	-.316
14	-1.448	-1.018	-.803	-.328	-.331	-.416	-.324
15	-.375	-.716	.414	.555	.490	.482	-.150
16	-.584	-.139	.225	.334	.213	.162	-.114
17	-1.409	-1.242	-.479	-.384	-.489	-.408	-.387
18	-2.150	-1.903	-.968	-.689	-.671	-.610	-.440
19	-3.126	-2.663	-1.669	-.683	-.818	-.612	-.376
20	-3.453	-2.830	-1.494	-.650	-.591	-.598	-.559
21	-3.808	-2.884	-1.714	-.578	-.682	-.366	-.314
22	-2.994	-2.052	-1.287	-.463	-.636	-.458	-.431
23	-1.451	-.779	-.626	-.321	-.354	-.344	-.288
24	-1.133	-.183	-.173	-.248	-.294	-.295	-.170
25	1.089	1.161	.638	-1.277	-.663	-.553	-1.230
26	.761	1.137	1.116	.624	.000.000	.679	-.054
27	-.019	.586	.807	1.118	1.086	.537	.205
28	-.107	.299	.440	.935	.769	.326	.282
29	-.181	.422	.573	.724	.539	.375	.269
30	.519	1.131	1.143	1.020	.848	.772	-.003
31	.714	1.171	1.213	1.081	.961	1.075	.118
32	.387	.844	.955	1.061	.739	.703	.493
33	.143	.552	.666	.670	.484	.373	.250

Table 3.- Continued.

(b) $C_{T,S} = 0.80$, $q_s = 20.03$

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.394	.077	-.532	-2.567	-2.554	-2.182	-.938
2	-.627	-1.008	-1.223	-2.656	-2.834	-1.979	-.457
3	-.933	-1.389	-1.372	-1.379	-3.221	-2.053	-.289
4	-1.377	-1.660	-1.423	-.685	-2.163	-1.954	-.476
5	-1.525	-1.798	-1.425	-.472	-1.175	-.566	-.269
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-1.235	-1.370	-1.116	-.458	-.646	-.449	-.351
11	-1.137	-1.288	.000,000	-.398	-.605	-.386	-.269
12	-.832	-.918	-.545	-.305	-.408	-.308	-.309
13	-1.314	-1.012	-.572	-.392	-.328	-.296	-.354
14	-1.594	-1.060	-.586	-.414	-.356	-.343	-.344
15	-.658	-.651	.318	.508	.390	.425	-.239
16	-.694	-.150	.243	.280	.217	.142	-.088
17	-1.590	-1.303	-.486	-.369	-.408	-.240	-.362
18	-2.249	-1.989	-1.078	-.670	-.595	-.573	-.519
19	-3.303	-2.609	-1.578	-.617	-.594	-.559	-.481
20	-3.445	-2.473	-1.397	-.633	-.425	-.459	-.577
21	-3.184	-2.088	-1.228	-.401	-.368	-.430	-.419
22	-2.650	-1.671	-1.057	-.414	-.364	-.383	-.396
23	-1.409	-.855	-.649	-.343	-.322	-.354	-.347
24	-1.029	-.201	-.187	-.309	-.279	-.304	-.325
25	1.079	1.127	.549	-1.421	-.845	-.845	-.954
26	.657	1.124	1.052	.630	.000,000	.312	-.214
27	-.005	.601	.793	1.035	1.101	.329	-.050
28	-.124	.299	.451	1.045	.725	.251	.028
29	-.197	.388	.516	.661	.503	.317	.159
30	.494	1.164	1.105	1.095	.932	.735	-.166
31	.583	1.125	1.118	1.034	.892	.868	.079
32	.313	.799	.842	.854	.763	.719	.347
33	.121	.520	.624	.552	.428	.303	-.011

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.308	-.127	-.573	-2.497	-2.855	-1.712	-.328
2	-.839	-1.228	-1.385	-2.241	-2.832	-1.543	-.217
3	-1.161	-1.645	-1.715	-1.345	-2.938	-1.047	-.490
4	-1.521	-1.822	-1.500	-.550	-2.301	-.733	-.296
5	-1.653	-1.818	-1.353	-.321	-.523	-.372	-.210
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-1.358	-1.460	-1.148	-.454	-.500	-.288	-.134
11	-1.167	-1.318	.000,000	-.334	-.401	-.312	-.217
12	-.865	-.954	-.563	-.258	-.268	-.294	-.269
13	-1.468	-1.120	-.634	-.350	-.360	-.265	-.173
14	-1.692	-1.169	-.645	-.381	-.327	-.280	-.269
15	-.652	-.602	.386	.552	.396	.461	-.080
16	-.795	-.144	.238	.303	.213	.176	-.057
17	-1.585	-1.210	-.433	-.281	-.336	-.155	-.175
18	-2.338	-1.793	-.961	-.525	-.458	-.360	-.264
19	-3.168	-2.381	-1.387	-.627	-.536	-.368	-.223
20	-3.571	-2.561	-1.532	-.455	-.464	-.393	-.257
21	-3.481	-2.326	-1.290	-.486	-.467	-.216	-.188
22	-2.479	-1.634	-1.041	-.318	-.207	-.265	-.268
23	-1.240	-.747	-.678	-.401	-.371	-.281	-.184
24	-.838	-.220	-.294	-.259	-.259	-.257	-.155
25	.955	.992	.504	-1.145	-.786	-.980	-.826
26	.697	1.133	1.098	.693	.000,000	.065	-.117
27	-.039	.668	.859	1.088	1.091	.318	.115
28	-.161	.302	.420	.870	.678	.281	.154
29	-.225	.390	.522	.687	.431	.264	.234
30	.349	1.115	1.084	1.042	.896	.682	-.147
31	.517	1.110	1.111	1.068	.932	.850	-.059
32	.304	.815	.902	.760	.692	.674	.310
33	.094	.471	.609	.505	.407	.314	.090

$\alpha = 65°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.188	-.254	-.747	-2.333	-2.707	-1.411	-.408
2	-1.088	-1.387	-1.561	-2.502	-2.254	-.688	-.303
3	-1.300	-1.726	-1.705	-1.549	-2.677	-.370	-.325
4	-1.690	-1.954	-1.588	-.486	-1.824	-.329	-.296
5	-1.853	-2.033	-1.510	-.341	-.572	-.320	-.181
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-1.511	-1.512	-1.169	-.276	-.308	-.313	-.286
11	-1.306	-1.308	.000,000	-.243	-.324	-.170	-.153
12	-.752	-.919	-.488	-.257	-.291	-.242	-.235
13	-1.258	-.905	-.495	-.264	-.274	-.226	-.236
14	-1.493	-.962	-.492	-.271	-.234	-.167	-.228
15	-.603	-.566	-.345	.440	.347	.391	-.178
16	-.798	-.160	.217	.279	.186	.164	-.107
17	-1.371	-1.016	-.311	-.250	-.332	-.143	-.196
18	-2.255	-1.710	-1.050	-.520	-.506	-.398	-.385
19	-2.851	-2.100	-1.348	-.588	-.550	-.424	-.276
20	-3.041	-2.059	-1.183	-.477	-.364	-.316	-.290
21	-3.058	-2.080	-1.225	-.436	-.439	-.303	-.291
22	-2.362	-1.464	-.789	-.414	-.289	-.209	-.321
23	-1.149	-.721	-.506	-.352	-.324	-.311	-.298
24	-.693	-.192	-.339	-.344	-.295	-.220	-.200
25	.477	1.025	.431	-1.182	-1.195	-1.095	-.583
26	.636	1.138	1.028	.713	.000,000	-.071	-.294
27	-.051	.692	.847	1.060	.790	.171	-.007
28	-.174	.303	.430	1.019	.561	.253	.158
29	-.265	.370	.496	.611	.372	.257	.172
30	.371	1.152	1.113	.984	.755	.656	-.240
31	.480	1.051	1.048	.860	.774	.646	-.100
32	.274	.786	.878	.686	.554	.591	.115
33	.081	.443	.561	.372	.304	.281	.141

$\alpha = 70°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.045	-.389	-.972	-2.454	-2.197	-.770	-.408
2	-1.261	-1.600	-1.660	-2.273	-1.879	-.567	-.329
3	-1.673	-1.988	-1.902	-1.490	-1.832	-.483	-.280
4	-2.108	-2.172	-1.791	-.667	-.564	-.303	-.271
5	-2.084	-2.111	-1.571	-.249	-.365	-.364	-.321
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-1.751	-1.622	-1.124	-.326	-.397	-.302	-.327
11	-1.506	-1.367	.000,000	-.247	-.288	-.234	-.227
12	-.919	-1.005	-.523	-.188	-.279	-.234	-.250
13	-1.485	-1.079	-.508	-.346	-.316	-.259	-.289
14	-1.464	-.968	-.482	-.305	-.270	-.218	-.253
15	-.698	-.576	.356	.263	.258	.354	-.194
16	-.741	-.135	.310	.183	.093	.095	-.091
17	-1.431	-1.070	-.400	-.275	-.303	-.232	-.186
18	-2.404	-1.821	-1.098	-.425	-.477	-.400	-.362
19	-2.870	-1.984	-1.425	-.401	-.451	-.358	-.306
20	-3.440	-2.377	-1.321	-.539	-.494	-.246	-.298
21	-2.877	-1.927	-1.229	-.402	-.379	-.303	-.315
22	-2.157	-1.383	-.761	-.343	-.263	-.179	-.225
23	-1.096	-.632	-.593	-.367	-.374	-.340	-.308
24	-.659	-.253	-.239	-.282	-.276	-.241	-.243
25	.861	.936	.439	-1.081	-.940	-.748	-.467
26	.595	1.162	1.092	.716	.000,000	-.171	-.215
27	-.088	.714	.878	.744	.649	.076	-.067
28	-.244	.283	.412	.830	.380	.152	.076
29	-.289	.341	.472	.554	.291	.232	.130
30	.381	1.070	1.050	.811	.653	.532	-.239
31	.454	1.090	1.117	.765	.749	.622	-.139
32	.171	.724	.863	.657	.426	.457	.075
33	.038	.393	.557	.283	.218	.223	.074

Table 3.- Continued.

(c) $C_{T,s} = 0.60$, $q_s = 21.67$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.188	1.231	.841	-.278	.031	.387	.367
2	.833	.916	.495	-1.125	-.699	-.460	-.311
3	.862	.743	.388	-1.488	-1.271	-.693	-.502
4	.270	.307	.087	-1.428	-1.449	-1.117	-.821
5	-.194	-.184	-.327	-1.587	-1.700	-1.421	-1.079
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.496	-.621	-.780	-1.152	-1.132	-.919	-.601
11	-.617	-.892	.000.000	-1.036	-1.280	-1.028	-.839
12	-1.034	-.796	-.752	-.578	-1.000	-.787	-.611
13	-.514	-.721	-.672	-.654	-.828	-.688	-.444
14	-.393	-.720	-.631	-.674	-.862	-.680	-.473
15	-.057	.210	.397	.332	.318	.340	-.073
16	.064	-.011	.076	.110	.043	.037	-.058
17	-.438	-.682	-.399	-.475	-.776	-.529	-.441
18	-1.128	-1.285	-.968	-1.188	-1.428	-1.405	-.890
19	-1.593	-1.694	-1.481	-1.592	-1.887	-1.678	-1.061
20	-1.885	-1.642	-1.481	-1.594	-1.838	-1.822	-1.295
21	-1.832	-1.376	-1.225	-1.285	-1.580	-1.610	-1.133
22	-1.398	-.994	-.581	-.838	-.990	-1.210	-1.001
23	-.759	-.243	-.145	-.256	-.243	-.454	-.771
24	-.658	-.211	-.219	-.103	-.175	-.128	-.340
25	.473	.432	.284	.341	1.064	1.077	.809
26	-.269	-.384	.011	.391	.000.000	.876	.748
27	-.492	-.416	-.040	.579	.482	.367	.348
28	-.209	-.105	.160	.431	.311	.250	.242
29	.059	.260	.336	.392	.454	.443	.386
30	.877	1.046	.573	.961	.984	.969	.731
31	.908	1.039	.552	.911	.998	1.008	.788
32	.552	.682	.573	.949	.799	.785	.769
33	.244	.481	.481	.552	.561	.533	.050

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.079	1.083	.255	-1.339	-.736	-.248	-.231
2	.862	.870	.107	-1.989	-1.695	-1.316	-1.131
3	.423	.343	-.025	-2.304	-2.238	-1.505	-1.281
4	-.067	-.191	-.472	-2.221	-2.140	-1.791	-1.567
5	-.385	-.561	-.674	-2.143	-2.294	-1.872	-1.549
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.577	-.480	-.996	-1.543	-1.382	-1.149	-.949
11	-.994	-1.035	.000.000	-1.204	-1.463	-1.187	-.991
12	-1.116	-.881	-.829	-.649	-1.085	-.822	-.682
13	-.588	-.797	-.725	-.694	-.864	-.737	-.550
14	-.581	-.795	-.691	-.682	-.948	-.688	-.608
15	-.004	.041	.340	.362	.345	.396	-.155
16	.004	-.053	.107	.096	.022	.049	-.116
17	-.608	-.784	-.409	-.543	-.815	-.558	-.517
18	-1.133	-1.283	-.964	-1.068	-1.300	-1.263	-.953
19	-1.787	-1.455	-1.532	-1.568	-1.831	-1.685	-1.244
20	-2.143	-2.031	-1.693	-1.658	-1.927	-1.992	-1.554
21	-1.859	-1.588	-1.283	-1.229	-1.483	-1.432	-1.200
22	-1.665	-1.047	-.798	-.847	-1.073	-1.247	-1.208
23	-1.028	-.294	-.225	-.205	-.239	-.353	-.899
24	-.852	-.205	-.205	-.094	-.114	-.099	-.386
25	.410	.836	.330	-.206	.658	.948	.745
26	.140	.199	.459	.631	.000.000	1.157	.902
27	-.251	-.158	.145	.631	.793	.716	.507
28	-.125	-.045	.258	.624	.442	.411	.287
29	.113	.322	.410	.574	.524	.518	.384
30	.871	1.073	.625	.952	.951	1.005	.091
31	.990	1.132	.638	1.008	1.041	1.118	.722
32	.602	.769	.648	.826	.841	.828	.831
33	.321	.495	.470	.584	.580	.560	-.051

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.986	.990	.029	-3.088	-2.097	-1.255	-1.082
2	.327	.193	-.343	-3.823	-3.088	-2.382	-1.955
3	.109	-.063	-.547	-3.948	-3.528	-2.662	-2.199
4	-.304	-.521	-.879	-3.442	-3.223	-2.718	-2.308
5	-.709	-1.017	-1.111	-2.821	-2.931	-2.619	-2.173
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.771	-1.145	-1.194	-1.893	-1.801	-1.617	-1.279
11	-.838	-1.255	.000.000	-1.391	-1.804	-1.694	-1.183
12	-1.220	-.912	-.908	-.693	-1.033	-.921	-.715
13	-.742	-.941	-.811	-.749	-.893	-.832	-.587
14	-.825	-.876	-.733	-.723	-.797	-.736	-.584
15	-.069	-.029	.454	.489	.426	.368	-.143
16	-.148	-.070	.103	.108	.040	-.049	-.147
17	-.875	-1.051	-.611	-.609	-.835	-.673	-.603
18	-1.551	-1.652	-1.239	-1.134	-1.378	-1.510	-1.139
19	-2.000	-1.960	-1.657	-1.282	-1.646	-1.548	-1.171
20	-2.493	-2.222	-1.748	-1.378	-1.597	-1.805	-1.453
21	-2.670	-2.059	-1.592	-1.132	-1.442	-1.623	-1.293
22	-2.237	-1.601	-1.046	-.858	-.952	-1.251	-1.322
23	-1.285	-.336	-.255	-.221	-.085	-.392	-.784
24	-.804	-.212	-.167	-.047	-.054	-.140	-.359
25	.994	1.020	.445	-1.102	.024	.473	.433
26	.410	.565	.602	.472	.000.000	1.060	.805
27	-.088	.074	.367	.837	1.013	.817	.597
28	-.045	.089	.353	.764	.869	.495	.363
29	.083	.384	.519	.728	.654	.535	.437
30	.841	1.164	.718	.977	1.035	.986	.691
31	.925	1.117	.887	1.004	1.004	1.043	.650
32	.587	.781	.672	.821	.868	.769	.761
33	.288	.498	.506	.593	.627	.493	.020

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.735	.577	-.418	-4.850	-3.694	-2.138	-2.074
2	-.182	-.502	-1.176	-5.624	-4.564	-3.549	-3.020
3	-.282	-.629	-1.172	-5.410	-5.058	-4.020	-3.388
4	-.820	-1.178	-1.433	-4.796	-4.603	-4.040	-3.539
5	-1.022	-1.471	-1.401	-3.541	-3.577	-3.222	-2.889
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.004	-1.454	-1.542	-2.401	-2.368	-2.055	-1.734
11	-1.003	-1.501	.000.000	-1.628	-1.910	-1.611	-1.408
12	-1.491	-1.046	-.946	-.740	-1.149	-.981	-.775
13	-.874	-1.024	-.812	-.759	-.927	-.785	-.598
14	-1.142	-1.046	-.868	-.782	-.896	-.788	-.674
15	-.174	-.153	.393	.448	.385	.385	-.103
16	-.360	-.141	.075	.122	-.003	.022	-.164
17	-1.109	-1.164	-.826	-.648	-.917	-.665	-.654
18	-1.923	-1.804	-1.413	-1.249	-1.532	-1.483	-1.173
19	-2.728	-2.458	-1.978	-1.529	-1.908	-1.616	-1.119
20	-2.984	-2.434	-1.947	-1.367	-1.576	-1.648	-1.338
21	-2.455	-2.193	-1.649	-1.181	-1.356	-1.544	-1.353
22	-2.092	-1.728	-1.320	-.895	-1.075	-1.175	-1.214
23	-1.517	-.913	-.240	-.260	-.211	-.420	-.801
24	-1.052	-.224	-.116	-.032	.033	-.061	-.328
25	1.074	1.190	.447	-2.340	-.985	-.109	-.119
26	.671	.961	.933	.353	.000.000	1.011	.747
27	.089	.340	.576	.884	1.007	.940	.606
28	-.016	.246	.448	.798	.754	.612	.379
29	.045	.427	.566	.811	.648	.583	.391
30	.707	1.074	.980	.921	.914	.951	-.013
31	.866	1.158	1.038	1.017	1.032	1.047	.476
32	.574	.886	.855	.925	.895	.896	.790
33	.309	.548	.601	.649	.624	.566	.085

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.512	.604	-1.074	-6.527	-5.123	-3.437	-2.833
2	-.445	-.937	-1.675	-6.840	-5.675	-4.288	-3.449
3	-.608	-1.408	-2.057	-6.941	-6.047	-4.357	-3.265
4	-1.244	-1.873	-2.202	-6.323	-5.754	-4.574	-3.713
5	-1.383	-1.951	-2.081	-4.444	-4.066	-3.256	-2.433
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.199	-1.444	-1.763	-2.637	-2.353	-1.837	-1.196
11	-1.093	-1.516	.000.000	-1.573	-1.760	-1.295	-.810
12	-1.005	-1.210	-1.058	-.863	-1.125	-.751	-.668
13	-1.108	-1.149	-.982	-.817	-.933	-.781	-.725
14	-1.387	-1.181	-.911	-.749	-.818	-.684	-.491
15	-.429	-.128	.345	.572	.439	.409	-.050
16	-.553	-.144	.092	.194	.052	-.005	-.110
17	-1.447	-1.496	-.807	-.655	-.935	-.542	-.426
18	-2.151	-1.957	-1.538	-1.176	-1.317	-1.074	-.763
19	-3.126	-2.574	-2.151	-1.195	-1.564	-.940	-.655
20	-3.446	-2.867	-2.243	-1.445	-1.675	-1.556	-.958
21	-3.784	-2.587	-2.074	-1.074	-1.249	-.599	-.573
22	-3.425	-1.871	-1.448	-.901	-.937	-1.028	-.860
23	-1.477	-.471	-.231	-.210	-.203	-.347	-.565
24	-1.499	-.410	-.135	.009	-.097	-.386	-.469
25	1.171	1.222	.219	-3.304	-1.744	-.621	-.719
26	.442	1.212	.943	.244	.000.000	1.037	.431
27	.254	.824	.814	.971	1.040	1.000	.476
28	.048	.434	.559	1.014	.841	.642	.413
29	.038	.408	.575	.723	.692	.562	.432
30	.839	1.205	1.120	1.010	.943	.998	-.066
31	.782	1.228	1.135	1.035	1.046	1.101	.470
32	.547	.919	.962	.955	.883	.839	.748
33	.315	.518	.771	.755	.641	.507	.025

Table 3. - Continued.

(c) $C_{T,s} = 0.60$, $q_s = 21.67$

$\alpha = 30°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.181	-.327	-1.477	-7.488	-5.841	-3.397	-2.846
2	-.912	-1.841	-2.349	-7.938	-6.224	-4.351	-3.056
3	-1.237	-1.983	-2.627	-7.118	-5.995	-4.324	-2.922
4	-1.570	-2.311	-2.477	-6.291	-5.371	-3.886	-2.470
5	-1.721	-2.400	-2.304	-4.929	-4.260	-3.254	-1.910
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.318	-1.861	-1.923	-2.466	-2.369	-1.762	-.964
11	-1.191	-1.543	.000.000	-1.500	-1.439	-.910	-.617
12	-1.023	-1.255	-1.115	-.814	-.964	-.761	-.580
13	-1.391	-1.370	-1.049	-.837	-.793	-.703	-.573
14	-1.735	-1.359	-1.001	-.768	-.834	-.662	-.550
15	-.494	-.251	.414	.592	.446	.448	-.100
16	-.745	-.404	.162	.184	.039	.035	-.128
17	-1.671	-1.484	-.743	-.609	-.744	-.354	-.265
18	-2.542	-2.211	-1.549	-1.087	-1.207	-.833	-.677
19	-3.430	-2.783	-2.180	-1.150	-1.177	-.750	-.642
20	-4.144	-3.039	-2.299	-1.152	-.957	-.817	-.781
21	-4.219	-2.884	-2.103	-.891	-.937	-.614	-.496
22	-3.481	-2.085	-1.521	-.638	-.617	-.627	-.501
23	-1.676	-.946	-.332	-.312	-.395	-.484	-.409
24	-1.571	-.306	-.091	-.193	-.208	-.370	-.371
25	1.109	1.047	.110	-4.226	-2.340	-.780	-1.764
26	1.013	1.251	1.189	.056	.000.000	.984	.070
27	.377	.411	1.010	.980	1.130	1.001	.319
28	.082	.463	.869	.971	.834	.625	.438
29	-.008	.508	.641	.763	.694	.533	.401
30	.541	1.229	1.214	1.055	.987	.977	.051
31	.714	1.239	1.241	1.093	1.086	1.074	.354
32	.478	.894	.984	1.014	.889	.762	.696
33	.241	.586	.792	.677	.580	.421	.034

$\alpha = 35°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-.008	-.410	-1.582	-2.851	-3.055	-2.544	-2.417
2	-1.134	-1.543	-2.408	-3.098	-3.840	-3.681	-2.781
3	-1.379	-2.022	-2.544	-2.430	-3.651	-3.647	-2.290
4	-1.672	-2.122	-2.152	-.883	-2.320	-3.010	-2.336
5	-1.721	-2.112	-1.742	-.573	-1.504	-2.342	-1.667
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.237	-1.509	-1.168	-.579	-.555	-.717	-.719
11	-1.116	-1.379	.000.000	-.518	-.569	-.570	-.510
12	-.926	-.995	-.590	-.597	-.517	-.526	-.577
13	-1.044	-.888	-.498	-.462	-.537	-.519	-.548
14	-1.374	-.944	-.599	-.491	-.571	-.548	-.634
15	-.511	-.234	-.196	.555	.416	.426	-.074
16	-.808	-.147	-.140	.196	.079	.208	-.007
17	-1.670	-1.352	-.793	-.642	-.847	-.503	-.521
18	-2.523	-2.202	-1.478	-1.101	-1.296	-.743	-.603
19	-3.349	-2.687	-1.964	-1.091	-1.148	-1.025	-.632
20	-3.939	-2.289	-.895	-.874	-.751	-.749	-.572
21	-4.128	-2.448	-1.697	-.585	-.638	-.440	-.386
22	-3.496	-2.104	-1.223	-.464	-.491	-.476	-.370
23	-1.784	-.866	-.506	-.419	-.518	-.494	-.478
24	-1.416	-.484	-.395	-.389	-.376	-.337	-.347
25	1.084	.880	-.224	-2.500	-1.709	-.630	-1.390
26	1.025	1.217	1.093	.452	.000.000	.925	-.074
27	.412	.802	.945	1.050	1.088	.970	.488
28	.101	.456	.818	1.034	.842	.608	.420
29	-.021	.511	.634	.831	.658	.508	.427
30	.505	1.201	1.186	1.025	.962	.936	.049
31	.692	1.143	1.150	1.064	.970	.998	.293
32	.484	.869	.949	.897	.810	.760	.624
33	.279	.605	.887	.660	.573	.463	-.019

$\alpha = 40°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-.417	-1.066	-2.243	-3.680	-4.249	-2.896	-1.992
2	-1.554	-2.253	-2.825	-3.101	-4.701	-3.181	-1.168
3	-1.471	-2.684	-3.343	-2.119	-4.576	-2.951	-.698
4	-2.243	-2.940	-3.096	-1.478	-3.718	-2.871	-.592
5	-2.009	-2.881	-2.504	-1.075	-2.111	-2.000	-.486
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.541	-2.054	-1.792	-1.160	-1.138	-.723	-.320
11	-1.394	-1.722	.000.000	-1.196	-1.090	-.497	-.362
12	-1.204	-1.120	-.746	-.854	-.876	-.337	-.322
13	-1.304	-1.027	-.637	-.674	-.759	-.389	-.431
14	-1.610	-1.176	-.741	-.703	-.554	-.378	-.416
15	-.715	-.272	.440	.568	.428	.452	-.058
16	-.903	-.187	.142	.225	.103	.129	-.104
17	-1.731	-1.292	-.710	-.539	-.701	-.332	-.378
18	-2.593	-2.105	-1.234	-1.026	-.830	-.602	-.673
19	-3.651	-2.564	-1.427	-.963	-.846	-.595	-.575
20	-4.487	-2.622	-1.165	-.822	-.574	-.558	-.508
21	-4.152	-2.361	-1.075	-.654	-.547	-.488	-.503
22	-3.292	-1.597	-.651	-.580	-.477	-.485	-.474
23	-1.780	-.713	-.532	-.514	-.432	-.416	-.408
24	-1.156	-.304	-.302	-.410	-.377	-.313	-.389
25	.433	.693	-.417	-2.832	-2.008	-.481	-1.180
26	1.133	1.330	1.171	.363	.000.000	.874	-.054
27	.550	1.003	1.134	1.070	1.135	.813	.210
28	.139	.578	.716	1.067	.855	.506	.313
29	-.047	.534	.651	.777	.648	.465	.350
30	.452	1.178	1.170	1.086	.979	.802	.087
31	.599	1.167	1.196	1.095	1.022	1.000	.280
32	.438	.874	.969	1.074	.815	.703	.475
33	.278	.626	.724	.706	.577	.409	.093

$\alpha = 45°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-.745	-1.552	-2.805	-4.212	-4.782	-1.970	-.958
2	-2.080	-2.941	-3.568	-2.756	-5.028	-3.029	-.788
3	-2.163	-3.072	-3.740	-2.265	-4.186	-2.299	-.404
4	-2.445	-3.238	-3.242	-1.316	-3.579	-2.063	-.449
5	-2.443	-3.134	-2.902	-1.026	-2.262	-1.294	-.335
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.851	-2.228	-1.875	-1.278	-1.393	-.471	-.330
11	-1.941	-1.774	.000.000	-1.166	-1.090	-.468	-.429
12	-1.200	-1.141	-.712	-.807	-.781	-.362	-.344
13	-1.348	-1.009	-.661	-.513	-.412	-.261	-.319
14	-1.750	-1.015	-.588	-.514	-.464	-.328	-.393
15	-.789	-.290	.493	.588	.455	.474	-.093
16	-.946	-.142	.205	.281	.159	.159	-.025
17	-1.721	-1.223	-.640	-.385	-.477	-.254	-.381
18	-2.583	-1.783	-1.062	-.770	-.645	-.571	-.566
19	-3.674	-2.408	-1.277	-.780	-.713	-.585	-.424
20	-4.438	-2.784	-1.568	-.701	-.604	-.432	-.571
21	-3.980	-2.085	-.908	-.560	-.491	-.367	-.458
22	-3.447	-1.740	-1.010	-.475	-.496	-.422	-.515
23	-1.543	-.686	-.534	-.433	-.377	-.384	-.414
24	-.791	-.444	-.428	-.445	-.423	-.400	-.390
25	.764	.412	-.550	-2.307	-1.953	-.791	-1.067
26	1.134	1.305	1.152	.355	.000.000	.437	-.017
27	.558	1.094	1.214	1.119	1.140	.431	.269
28	.167	.629	.752	1.054	.824	.421	.359
29	-.054	.556	.691	.798	.619	.461	.379
30	.335	1.215	1.218	1.119	.964	.795	.108
31	.572	1.268	1.239	1.145	1.071	1.044	.195
32	.445	.919	1.006	1.129	.783	.709	.494
33	.246	.572	.674	.659	.501	.363	.059

Table 3. - Concluded.

(d) $C_{T,S} = 0.30$, $q_S = 19.16$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.023	1.078	.531	-.204	.022	.173	.153
2	.599	.601	.121	-1.018	-.912	-.790	-.670
3	.259	.190	-.253	-1.751	-1.504	-1.144	-1.031
4	-.190	-.293	-.698	-1.955	-1.857	-1.601	-1.419
5	-.594	-.824	-1.153	-2.201	-2.076	-1.859	-1.620
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.784	-1.119	-1.533	-1.820	-1.681	-1.355	-1.170
11	-.482	-1.212	.000.000	-1.523	-1.380	-1.115	-1.270
12	-1.341	-.934	-.956	-.755	-1.158	-.999	-.819
13	-.744	-1.008	-.928	-.915	-1.048	-.980	-.709
14	-.844	-.930	-.743	-.873	-1.017	-.877	-.693
15	-.095	.421	.262	.262	.275	.226	.226
16	-.117	-.034	.008	.074	-.013	-.088	-.271
17	-.732	-.941	-.446	-.696	-.857	-.743	-.733
18	-1.379	-1.505	-1.052	-1.331	-1.528	-1.547	-1.110
19	-1.941	-1.946	-1.432	-1.823	-2.047	-1.842	-1.187
20	-2.311	-2.100	-1.573	-1.839	-2.082	-1.974	-1.419
21	-2.491	-1.870	-1.269	-1.465	-1.847	-1.753	-1.251
22	-2.041	-1.231	-.593	-1.030	-1.070	-1.356	-1.052
23	-1.244	-.545	-.308	-.307	-.301	-.488	-.771
24	-.822	-.289	-.190	-.189	-.209	-.248	-.513
25	.053	.802	.606	.588	.965	.961	.841
26	.036	.046	.394	.616	.000.000	.870	.783
27	-.388	-.266	-.117	.308	.427	.350	.317
28	-.147	-.126	.104	.168	.263	.237	.143
29	.028	.248	.329	.227	.425	.433	.302
30	.809	1.129	.520	1.026	.992	.975	.329
31	.695	1.144	.505	1.005	1.037	1.041	.782
32	.520	.739	.490	.410	.706	.700	.751
33	.239	.496	.385	.548	.533	.496	.025

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.881	.944	-.076	-1.441	-1.035	-.746	-.731
2	.102	-.948	-.829	-2.771	-2.297	-2.100	-1.887
3	-.171	-.505	-1.344	-3.280	-2.907	-2.369	-1.950
4	-.577	-.946	-1.495	-3.274	-2.955	-2.558	-2.204
5	-1.041	-1.587	-2.040	-3.289	-3.011	-2.634	-2.240
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.062	-1.509	-1.946	-2.344	-2.005	-1.847	-1.583
11	-.945	-1.481	.000.000	-1.545	-1.812	-1.812	-1.444
12	-1.817	-1.167	-1.133	-.824	-1.325	-1.127	-.944
13	-.833	-1.022	-.888	-.832	-1.031	-.886	-.600
14	-1.038	-1.010	-.897	-.839	-.982	-.878	-.689
15	-.189	.383	.309	.393	.329	.344	-.243
16	-.267	-.054	.042	.097	-.017	-.041	-.188
17	-.989	-1.101	-.590	-.680	-.968	-.783	-.648
18	-1.691	-1.707	-1.256	-1.327	-1.591	-1.643	-1.111
19	-2.572	-2.398	-1.926	-1.825	-2.142	-1.907	-1.282
20	-2.757	-2.220	-1.745	-1.595	-1.891	-1.883	-1.274
21	-3.041	-2.112	-1.585	-1.495	-1.898	-1.606	-1.138
22	-2.654	-1.434	-.851	-.979	-.968	-1.185	-.956
23	-1.344	-.342	-.311	-.251	-.290	-.357	-.623
24	-1.072	-.287	-.292	-.131	-.208	-.236	-.497
25	1.066	1.218	.561	-.388	.508	.683	.696
26	.471	.696	.833	.724	.000.000	1.046	1.020
27	-.038	.172	.308	.664	.815	.729	.655
28	-.077	.097	.301	.700	.554	.544	.453
29	.092	.391	.444	.559	.562	.563	.454
30	.941	1.182	.657	.935	.890	.902	.343
31	.849	1.157	.706	1.045	1.007	1.035	.874
32	.555	.815	.610	.471	.820	.808	.828
33	.248	.500	.434	.561	.539	.491	.251

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.433	.346	-1.108	-3.342	-2.751	-2.115	-1.928
2	-.386	-.705	-1.845	-4.620	-4.015	-3.457	-3.048
3	-.782	-1.196	-2.196	-4.920	-4.426	-3.673	-3.276
4	-1.091	-1.543	-2.220	-4.318	-3.967	-3.596	-3.259
5	-1.487	-2.059	-2.467	-3.715	-3.818	-3.342	-3.020
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.619	-1.756	-2.091	-2.950	-2.381	-2.152	-1.903
11	-1.313	-1.873	.000.000	-1.837	-2.231	-2.035	-1.797
12	-1.769	-1.286	-1.191	-.848	-1.383	-1.191	-.960
13	-1.096	-1.209	-1.013	-.948	-1.136	-.984	-.739
14	-1.293	-1.135	-.941	-.854	-.983	-.897	-.757
15	-.276	.263	.362	.467	.332	.324	-.190
16	-.490	-.127	.071	.132	-.036	-.158	-.276
17	-1.257	-1.197	-.624	-.648	-.942	-.795	-.641
18	-2.405	-2.201	-1.615	-1.508	-1.747	-1.742	-1.083
19	-3.060	-2.581	-2.027	-1.691	-1.835	-1.770	-1.142
20	-3.396	-2.659	-1.886	-1.489	-1.858	-1.724	-1.123
21	-3.715	-2.603	-1.765	-1.373	-1.690	-1.616	-1.238
22	-3.291	-1.800	-1.045	-.923	-.991	-1.120	-.998
23	-1.881	-.933	-.339	-.250	-.210	-.568	-.784
24	-1.303	-.809	-.235	-.145	-.184	-.232	-.531
25	1.123	1.288	.131	-1.111	-.405	-.214	-.118
26	.991	1.217	.741	.649	.000.000	1.028	.940
27	.682	.938	.602	.630	.979	.923	.852
28	.643	.280	.523	.879	.723	.644	.591
29	.048	.447	.576	.657	.640	.608	.539
30	.847	1.293	.933	1.050	.987	1.001	.600
31	.784	1.190	.917	1.047	.970	.957	.759
32	.522	.887	.729	.911	.818	.771	.704
33	.319	.533	.555	.708	.618	.536	.005

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.082	-.907	-2.325	-6.308	-5.477	-4.097	-3.642
2	-1.243	-2.057	-3.501	-7.026	-6.345	-5.658	-5.103
3	-1.510	-2.386	-3.639	-6.707	-6.291	-5.484	-5.004
4	-1.885	-2.684	-3.390	-6.313	-6.010	-5.509	-4.993
5	-1.935	-2.784	-3.240	-5.083	-4.710	-4.306	-4.009
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.494	-2.105	-2.394	-2.838	-2.783	-2.649	-2.376
11	-1.399	-1.993	.000.000	-2.072	-2.270	-2.024	-1.784
12	-2.133	-1.567	-1.425	-1.031	-1.342	-1.353	-1.121
13	-1.355	-1.395	-1.125	-1.030	-1.163	-1.014	-.956
14	-1.715	-1.344	-1.019	-.958	-1.026	-.923	-.950
15	-.505	.147	.411	.546	.408	.348	-.358
16	-.800	-.192	.063	.129	-.037	-.169	-.263
17	-1.758	-1.493	-.801	-.789	-1.055	-.879	-.748
18	-2.797	-2.333	-1.691	-1.420	-1.575	-1.546	-1.049
19	-3.612	-2.884	-2.246	-1.708	-1.767	-1.641	-1.074
20	-4.526	-3.059	-2.312	-1.622	-1.759	-1.746	-1.342
21	-4.829	-2.930	-2.108	-1.464	-1.480	-1.388	-1.121
22	-4.084	-2.009	-1.376	-.892	-.840	-1.094	-.940
23	-2.110	-.988	-.306	-.241	-.201	-.548	-.831
24	-1.494	-.397	-.257	-.120	-.207	-.329	-.722
25	1.089	1.077	-.433	-2.849	-2.011	-1.277	-1.112
26	1.066	1.314	.893	.334	.000.000	.827	.758
27	.521	.888	.973	1.090	1.123	1.086	.823
28	.178	.515	.730	1.113	.935	.817	.618
29	.696	.572	.711	.827	.778	.732	.669
30	.901	1.256	1.107	1.055	.958	.942	.203
31	.813	1.338	1.154	1.176	1.080	1.065	.775
32	.440	.862	.800	1.040	.777	.738	.704
33	.308	.592	.622	.721	.605	.504	.053

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.313	-.861	-2.314	-5.362	-4.862	-3.115	-3.141
2	-1.485	-1.943	-2.804	-5.515	-5.412	-3.941	-3.830
3	-1.894	-2.570	-3.596	-5.982	-4.032	-4.141	-4.183
4	-2.030	-2.750	-3.044	-5.285	-3.619	-4.064	-4.001
5	-1.944	-2.821	-2.741	-1.375	-1.714	-2.653	-2.838
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.492	-1.930	-1.774	-.764	-.743	-1.322	-1.703
11	-1.290	-1.746	.000.000	-.725	-.834	-.888	-1.057
12	-1.121	-1.129	-.852	-.726	-.814	-.896	-.848
13	-1.225	-1.130	-.834	-.795	-.834	-1.203	-.847
14	-1.821	-1.283	-.955	-.870	-.847	-.885	-.809
15	-.440	.109	.323	.509	.407	.347	-.126
16	-.802	-.151	.091	.099	-.034	-.253	-.381
17	-1.685	-1.335	-.859	-.543	-.642	-.578	-.561
18	-2.874	-2.270	-1.342	-1.072	-1.280	-1.277	-.929
19	-3.877	-2.941	-1.815	-1.346	-1.484	-1.410	-.992
20	-4.523	-2.957	-1.332	-1.050	-1.137	-1.022	-1.135
21	-4.847	-2.923	-1.243	-.974	-1.008	-.725	-.750
22	-4.023	-2.183	-1.205	-.790	-.867	-.906	-.859
23	-2.065	-.781	-.704	-.427	-.485	-.641	-.678
24	-1.353	-.246	-.443	-.433	-.599	-.563	-.580
25	.991	1.018	-.267	-1.030	-.709	-.758	-.746
26	1.013	1.215	.777	.718	.000.000	.807	.741
27	.572	.912	.923	.778	1.072	1.012	.889
28	.208	.474	.620	.953	.758	.696	.619
29	.056	.581	.614	.706	.643	.614	.551
30	.957	1.284	1.158	.999	.907	.934	.225
31	.745	1.245	1.129	1.049	.985	.974	.789
32	.531	.942	.846	.878	.774	.740	.749
33	.301	.615	.595	.601	.483	.458	.076

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.945	-1.545	-3.047	-3.194	-3.228	-3.443	-3.495
2	-2.274	-2.949	-3.783	-3.472	-3.305	-4.108	-3.868
3	-2.418	-3.263	-3.976	-3.148	-3.363	-4.037	-3.750
4	-2.513	-3.248	-3.347	-2.165	-2.405	-3.451	-3.443
5	-2.596	-3.345	-3.047	-1.059	-1.472	-2.391	-2.394
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.559	-2.037	-1.650	-.605	-.562	-.718	-.784
11	-1.230	-1.587	.000.000	-.564	-.572	-.781	-.811
12	-.959	-1.031	-.607	-.555	-.585	-.755	-.709
13	-1.233	-.985	-.649	-.607	-.635	-.723	-.668
14	-1.587	-1.058	-.661	-.622	-.619	-.641	-.643
15	-.586	.092	.499	.555	.441	.341	-.204
16	-.696	-.044	.186	.226	.135	-.032	-.178
17	-1.531	-1.134	-.594	-.471	-.760	-.693	-.620
18	-2.916	-2.073	-1.258	-1.258	-1.128	-1.181	-1.040
19	-3.990	-2.892	-1.390	-1.062	-1.060	-1.016	-.807
20	-4.287	-2.886	-1.128	-.897	-.973	-.850	-.862
21	-4.345	-2.864	-1.183	-.823	-.841	-.936	-.860
22	-4.147	-2.287	-1.241	-1.039	-.943	-.861	-.738
23	-2.031	-.982	-.652	-.395	-.548	-.652	-.697
24	-1.274	-.472	-.576	-.539	-.502	-.577	-.550
25	.748	.677	-.650	-1.363	-.676	-.587	-.756
26	1.106	1.249	.929	.672	.000.000	.763	.471
27	.681	.983	1.004	.691	.965	.939	.752
28	.296	.623	.758	.862	.811	.745	.623
29	.083	.561	.666	.682	.690	.640	.584
30	.559	1.287	1.240	.972	.962	.934	.309
31	.772	1.425	1.418	1.159	1.133	1.054	.861
32	.503	.914	.970	.999	.753	.729	.745
33	.307	.605	.643	.608	.499	.427	-.029

Table 4.- Pressure coefficients for wing with propeller rotation down at tip, basic leading edge, $\delta_f = 60°$.

(a) $C_{T,S} \approx 0.90$, $q_s = 20.19$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.951	.878	.187	-.017	.432	.662	-.070
2	.965	1.164	.419	-.466	-.225	-.107	-.303
3	.927	1.056	.475	-.426	-.530	-.311	-.337
4	.960	.826	.882	-.848	-.764	-.631	-.340
5	.129	.398	.529	-1.042	-1.052	-.791	-.345
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.177	-.162	-.262	-.951	-.767	-.556	-.228
11	-.339	-.579	*000.000	-.806	-.908	-.539	-.288
12	-.615	-.491	-.510	-.419	-.866	-.397	-.243
13	-.288	-.532	-.516	-.617	-.812	-.383	-.250
14	-.379	-.557	-.587	-.723	-.746	-.425	-.313
15	-.148	-.700	.039	-.075	-.126	.086	.061
16	-.490	-1.126	-1.215	-1.718	-1.967	-1.360	-.743
17	-1.514	-1.770	-1.841	-2.245	-2.700	-1.401	-1.040
18	-1.603	-1.922	-2.122	-2.764	-3.101	-1.764	-1.343
19	-1.378	-1.531	-1.837	-2.432	-2.866	-1.772	-1.127
20	-1.069	-.885	-1.111	-1.732	-2.205	-1.367	-1.154
21	-.790	-.341	-.377	-.823	-1.674	-1.041	-.930
22	-.423	-.274	-.300	-.337	-.837	-.861	-.700
23	-.315	-.233	-.247	-.342	-.215	-.384	-.483
24	-.401	-.243	-.220	-.301	.018	-.013	-.390
25	-.066	-.454	-1.200	.868	1.113	1.157	.276
26	-.508	-1.113	-1.320	.871	*000.000	.868	.438
27	-.708	-.744	-.699	.671	.555	.301	.354
28	-.164	-.101	.085	.539	.470	.306	.293
29	.043	.517	.499	.576	.674	.625	.637
30	-.337	.466	.601	.678	.714	.703	-.009
31	.670	.559	.667	.917	1.055	1.045	.705
32	.908	.948	.766	.917	1.032	1.022	.980
33	.556	.748	.579	.718	.829	.764	.704

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.008	.981	.344	-.543	.015	.537	-.078
2	.960	1.135	.838	-1.134	-.753	-.375	-.530
3	.817	1.088	.917	-1.215	-1.132	-.630	-.674
4	.957	.737	.802	-1.168	-1.255	-.954	-.650
5	.062	.252	.477	-1.309	-1.390	-1.048	-.634
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.217	-.293	-.320	-1.078	-.888	-.625	-.301
11	-.343	-.636	*000.000	-.868	-.985	-.595	-.306
12	-.646	-.535	-.500	-.487	-.700	-.381	-.212
13	-.297	-.599	-.562	-.584	-.630	-.386	-.227
14	-.371	-.566	-.602	-.681	-.765	-.423	-.283
15	-.145	-.789	.036	-.095	-.131	.107	.111
16	-1.076	-1.139	-1.163	-1.603	-1.850	-1.164	-.807
17	-1.706	-2.079	-1.841	-2.186	-2.590	-1.395	-.920
18	-1.974	-2.122	-2.019	-2.440	-2.855	-1.768	-1.148
19	-1.692	-1.690	-1.736	-2.299	-2.715	-1.634	-1.140
20	-1.308	-.941	-.949	-1.499	-2.122	-1.401	-1.057
21	-.979	-.447	-.396	-.535	-1.625	-1.151	-.870
22	-.630	-.332	-.269	-.286	-.877	-.776	-.680
23	-.396	-.272	-.302	-.280	-.314	-.409	-.541
24	-.437	-.280	-.249	-.309	.014	-.021	-.317
25	.088	-.130	-.938	.497	.977	1.175	.383
26	-.418	-.910	-1.029	.800	*000.000	.933	.638
27	.017	-.643	-.577	.842	.041	.340	.384
28	.190	-.108	.054	.716	.448	.316	.361
29	.074	.741	.512	.621	.683	.663	.699
30	-.230	.443	.592	.732	.725	.748	.099
31	.075	.567	.830	.991	1.031	1.057	.845
32	.431	1.072	.781	.971	1.006	1.020	1.053
33	.545	.731	.605	.703	.779	.738	.583

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.018	1.089	.540	-1.298	-.365	.276	-.341
2	.884	1.084	.817	-1.438	-1.146	-.625	-.630
3	.999	.961	.919	-1.689	-1.446	-.912	-.877
4	.954	.669	.953	-1.654	-1.538	-1.179	-.596
5	-.050	.199	.249	-1.588	-1.597	-1.269	-.700
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.291	-.332	-.422	-1.302	-1.034	-.706	-.389
11	-.415	-.649	*000.000	-.944	-1.011	-.642	-.351
12	-.680	-.534	-.598	-.571	-.673	-.385	-.221
13	-.392	-.583	-.551	-.551	-.627	-.337	-.233
14	-.496	-.604	-.559	-.691	-.681	-.373	-.294
15	-.173	-.754	.049	-.075	-.067	.039	.198
16	-1.214	-1.398	-1.208	-1.549	-1.729	-1.138	-.760
17	-1.808	-2.249	-1.862	-2.248	-2.338	-1.320	-1.006
18	-2.009	-2.338	-2.041	-2.338	-2.543	-1.416	-1.193
19	-1.841	-1.934	-1.877	-2.283	-2.636	-1.588	-1.200
20	-1.445	-1.330	-1.001	-1.782	-1.927	-1.122	-1.003
21	-1.117	-.487	-.431	-.778	-1.519	-1.090	-.934
22	-.740	-.390	-.347	-.308	-.796	-.814	-.780
23	-.521	-.248	-.279	-.218	-.298	-.432	-.442
24	-.495	-.235	-.250	-.178	-.057	-.062	-.193
25	.228	.172	-.336	.021	.792	1.003	.430
26	-.232	-.583	-.581	.709	*000.000	.957	.713
27	-.570	-.434	-.247	.794	.777	.399	.293
28	-.168	-.046	.174	.736	.598	.354	.348
29	.034	.524	.538	.611	.661	.605	.657
30	-.014	.470	.670	.817	.774	.753	.210
31	.943	.914	.855	.973	.992	.945	.594
32	.870	1.075	.836	.974	1.018	.975	.901
33	.543	.801	.682	.890	.849	.725	.670

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.045	1.088	.624	-1.696	-.698	-.082	-.533
2	.834	.998	.745	-2.499	-1.652	-.867	-.935
3	.810	.788	.749	-2.490	-1.907	-1.216	-.937
4	.888	.413	.572	-2.327	-2.004	-1.360	-1.010
5	-.123	-.013	.192	-1.979	-1.882	-1.373	-.861
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.365	-.480	-.440	-1.178	-1.127	-.735	-.373
11	-.451	-.772	*000.000	-.990	-1.063	-.647	-.354
12	-.747	-.662	-.585	-.684	-.694	-.392	-.179
13	-.464	-.697	-.558	-.646	-.645	-.389	-.205
14	-.527	-.712	-.604	-.671	-.644	-.365	-.282
15	-.213	-.849	-.006	-.136	-.124	.105	.131
16	-1.323	-1.670	-1.233	-1.523	-1.587	-.956	-.714
17	-1.933	-2.509	-1.882	-2.065	-2.230	-1.236	-1.006
18	-2.167	-2.532	-2.007	-2.270	-2.501	-1.386	-1.208
19	-2.230	-2.538	-2.007	-2.289	-2.542	-1.446	-1.344
20	-1.765	-1.660	-1.276	-1.472	-1.704	-1.005	-1.055
21	-1.350	-.900	-.645	-.885	-1.333	-.910	-.852
22	-.973	-.490	-.311	-.411	-.747	-.691	-.744
23	-.586	-.291	-.249	-.215	-.208	-.397	-.436
24	-.516	-.365	-.265	-.216	0+	-.017	-.157
25	.420	.320	.147	-.518	.588	.966	.307
26	-.196	-.303	-.255	.738	*000.000	1.087	.556
27	-.499	-.388	-.197	.754	.804	.492	.331
28	-.150	-.094	.206	.775	.609	.370	.219
29	.078	.439	.569	.608	.662	.637	.660
30	.120	.526	.611	.709	.756	.758	.210
31	.944	1.036	.708	.967	1.015	.993	.544
32	.778	.946	.816	.844	.908	.887	.863
33	.528	.943	.640	.830	.775	.703	.616

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.055	1.150	.722	-2.342	-1.193	-.244	-.790
2	.742	.908	.774	-3.002	-2.074	-1.179	-1.125
3	.519	.713	.842	-2.918	-2.344	-1.375	-1.067
4	.840	.277	.474	-2.848	-2.380	-1.632	-1.104
5	-.229	-.153	.038	-2.214	-2.100	-1.562	-.992
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.429	-.591	-.751	-1.589	-1.258	-.832	-.474
11	-.502	-.814	*000.000	-1.042	-1.117	-.655	-.398
12	-.640	-.547	-.627	-.708	-.748	-.395	-.270
13	-.564	-.740	-.635	-.671	-.619	-.313	-.291
14	-.639	-.812	-.642	-.684	-.634	-.346	-.286
15	-.268	-.851	.005	-.146	-.059	.133	.114
16	-1.448	-1.892	-1.479	-1.955	-1.937	-1.896	-.711
17	-2.108	-2.748	-2.159	-2.077	-2.191	-1.233	-1.101
18	-2.324	-3.015	-2.493	-2.913	-2.121	-1.494	-1.215
19	-2.309	-2.944	-2.093	-2.133	-2.110	-1.249	-1.080
20	-1.994	-1.791	-1.522	-1.663	-1.429	-.963	-1.073
21	-1.618	-1.083	-.678	-1.041	-1.257	-.791	-.936
22	-1.142	-.473	-.327	-.368	-.662	-.579	-.676
23	-.580	-.327	-.273	-.131	-.207	-.362	-.520
24	-.585	-.341	-.282	-.155	-.029	-.039	-.111
25	.470	.572	.148	-.982	.285	.811	.206
26	.024	-.083	-.196	.581	*000.000	.971	.504
27	-.453	-.210	-.066	.804	.878	.558	.316
28	-.197	.011	.255	.755	.635	.399	.134
29	.067	.448	.578	.708	.648	.615	.535
30	.174	.673	.624	.771	.776	.783	.271
31	.498	1.111	.768	.971	.997	.979	.405
32	.741	.995	.913	.859	.877	.891	.806
33	.468	.759	.707	.743	.768	.728	.556

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.043	1.238	.905	-3.301	-1.707	-.495	-.984
2	.870	.816	.747	-3.640	-2.458	-1.524	-1.383
3	.906	.766	.623	-3.595	-2.758	-1.746	-1.393
4	.322	.319	.354	-3.287	-2.541	-1.820	-1.301
5	-.322	-.319	-.016	-2.515	-2.240	-1.519	-.995
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.514	-.627	-.620	-1.627	-1.491	-.883	-.524
11	-.564	-.881	*000.000	-1.071	-1.183	-.711	-.471
12	-.817	-.714	-.702	-.567	-.717	-.396	-.280
13	-.598	-.762	-.717	-.621	-.607	-.346	-.256
14	-.761	-.845	-.734	-.623	-.622	-.372	-.271
15	-.384	-.875	-.123	-.079	-.042	.154	.080
16	-1.695	-2.020	-1.559	-1.464	-1.493	-.981	-.830
17	-2.248	-2.895	-2.364	-1.723	-1.857	-1.173	-1.051
18	-2.732	-3.153	-2.480	-2.219	-2.183	-1.523	-1.253
19	-2.683	-3.125	-2.342	-1.896	-2.295	-1.446	-1.128
20	-2.289	-1.984	-1.483	-1.384	-1.611	-.941	-1.061
21	-1.804	-1.114	-.595	-.830	-1.040	-.815	-.994
22	-1.193	-.517	-.372	-.428	-.714	-.689	-.811
23	-.750	-.390	-.275	-.058	-.183	-.295	-.497
24	-.700	-.389	-.329	-.067	-.013	.010	-.051
25	.599	.763	.314	-1.318	.055	.676	.021
26	.064	.180	.107	.633	*000.000	.981	.494
27	-.476	-.084	.075	.976	.927	.623	.282
28	-.175	.035	.238	.901	.688	.384	.173
29	.002	.490	.543	.735	.607	.622	.568
30	.147	.647	.630	.765	.759	.750	.338
31	.882	1.134	.957	1.005	1.004	.993	.418
32	.795	1.048	.851	1.014	.935	.960	.859
33	.655	.756	.669	.801	.773	.701	.596

Table 4.- Continued.

(a) $C_{T,s} = 0.90$, $q_s = 20.19$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.959	1.057	.782	-3.473	-1.993	-.790	-1.019
2	.511	.563	.520	-4.118	-2.841	-1.823	-1.241
3	.281	.320	.447	-4.072	-3.177	-2.043	-1.578
4	-.106	-.095	.049	-3.637	-2.861	-2.056	-1.509
5	-.447	-.524	-.292	-2.763	-2.461	-1.814	-1.177
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.575	-.755	-.708	-1.685	-1.380	-.841	-.459
11	-.584	-.699	*000.000	-1.014	-1.062	-.587	-.384
12	-.458	-.806	-.768	-.487	-.662	-.285	-.267
13	-.645	-.842	-.708	-.632	-.541	-.298	-.306
14	-.862	-.866	-.749	-.652	-.544	-.320	-.240
15	-.519	-.887	-.083	-.071	-.015	.203	.014
16	-1.947	-2.181	-1.679	-1.427	-1.036	-.831	-.714
17	-2.766	-3.181	-2.357	-1.756	-1.790	-.902	-.706
18	-3.225	-3.336	-2.575	-2.021	-1.901	-.720	-.625
19	-3.034	-3.050	-2.546	-1.535	-1.769	-.908	-.728
20	-2.664	-2.574	-1.904	-.837	-.691	-.591	-.631
21	-2.052	-1.258	-1.110	-.873	-.954	-.436	-.458
22	-1.564	-.668	-.412	-.582	-.701	-.397	-.465
23	-.746	-.429	-.432	-.168	-.185	-.221	-.296
24	-.781	-.477	-.378	-.002	.011	-.118	-.170
25	.670	.867	.503	-1.497	-.179	.614	-.493
26	.188	.396	.448	.545	*000.000	.968	.133
27	-.383	-.021	.193	.906	.885	.580	.159
28	-.186	.067	.266	.784	.672	.400	.113
29	.002	.455	.609	.656	.653	.574	.482
30	.113	.681	.659	.753	.701	.700	.156
31	.804	1.081	.905	.994	.954	.968	.291
32	.775	1.019	.948	.969	.922	.938	.746
33	.477	.721	.752	.802	.741	.646	.414

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.006	1.032	.812	-4.153	-2.446	-1.135	-1.657
2	.471	.500	.267	-4.588	-3.350	-2.290	-1.968
3	.178	.141	.090	-4.614	-3.605	-2.471	-1.928
4	-.241	-.291	-.278	-3.958	-3.165	-2.380	-1.814
5	-.548	-.692	-.485	-2.973	-2.554	-1.728	-1.804
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.882	-.890	-.969	-1.833	-1.534	-.933	-.420
11	-.673	-1.058	*000.000	-1.113	-1.145	-.601	-.317
12	-1.026	-.848	-.907	-.464	-.622	-.280	-.324
13	-.777	-.911	-.826	-.556	-.513	-.307	-.274
14	-1.040	-1.016	-.942	-.608	-.528	-.293	-.159
15	-.600	-.851	-.296	-.055	-.071	.132	.086
16	-2.192	-2.454	-2.092	-1.449	-1.322	-.563	-.534
17	-3.011	-3.317	-2.939	-1.189	-1.041	-.740	-.640
18	-3.494	-3.571	-3.247	-1.793	-1.839	-.867	-.727
19	-3.341	-3.378	-2.874	-1.536	-1.285	-.530	-.481
20	-2.931	-2.596	-2.170	-1.142	-1.039	-.379	-.444
21	-2.304	-1.767	-1.604	-.820	-.781	-.329	-.291
22	-1.803	-.736	-.546	-.587	-.695	-.426	-.534
23	-.939	-.607	-.580	-.215	-.279	-.284	-.329
24	-.845	-.693	-.351	-.006	-.064	-.179	-.233
25	.888	.992	.760	-1.720	-.387	.534	-.583
26	.229	.495	.612	.524	*000.000	1.127	.031
27	-.309	.049	.221	.916	.909	.687	.148
28	-.196	.081	.237	.769	.620	.346	.090
29	-.032	.440	.520	.693	.627	.520	.400
30	.102	.710	.564	.696	.690	.743	.244
31	.767	1.078	.950	.963	.923	.934	.300
32	.732	1.023	.908	.944	.874	.863	.720
33	.447	.719	.629	.826	.702	.655	.532

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.841	.942	.570	-3.863	-2.307	-1.232	-1.518
2	.462	.553	.140	-4.821	-3.277	-2.484	-1.748
3	.090	.023	-.060	-4.788	-3.679	-2.516	-1.982
4	-.299	-.376	-.465	-4.078	-3.219	-2.442	-1.390
5	-.640	-.794	-.588	-3.045	-2.669	-2.062	-1.096
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.700	-.930	-1.093	-1.708	-1.450	-.709	-.270
11	-.714	-1.080	*000.000	-.952	-.985	-.537	-.301
12	-1.134	-.912	-.953	-.440	-.592	-.399	-.143
13	-.927	-1.014	-.910	-.586	-.563	-.400	-.200
14	-1.145	-1.083	-.912	-.586	-.536	-.251	-.176
15	-.761	-.960	-.452	-.058	.017	.176	.014
16	-2.314	-2.443	-2.076	-.984	-.922	-.596	-.353
17	-3.283	-3.781	-3.279	-1.419	-1.577	-.758	-.792
18	-3.682	-4.269	-3.419	-.758	-.691	-.441	-.480
19	-3.594	-3.791	-3.110	-1.401	-1.702	-.673	-.495
20	-3.085	-2.840	-2.530	-.796	-.674	-.393	-.419
21	-2.492	-2.306	-2.025	-.610	-.622	-.321	-.317
22	-1.416	-.705	-1.026	-.449	-.417	-.358	-.322
23	-1.040	-.684	-.492	-.250	-.220	-.267	-.333
24	-.891	-.649	-.477	-.264	-.171	-.175	-.259
25	.752	1.086	.760	-2.045	-.691	-.262	-1.084
26	.283	.677	.835	.507	*000.000	1.031	.110
27	-.362	.137	.200	.976	.940	.660	.174
28	-.159	.126	.177	.852	.724	.371	.059
29	-.019	.476	.505	.849	.685	.543	.425
30	.131	.715	.554	.755	.691	.679	.170
31	.769	1.137	1.048	1.064	.952	.889	.317
32	.704	1.015	.924	.949	.909	.882	.727
33	.454	.737	.570	.758	.721	.586	.352

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.891	.884	.535	-4.118	-2.557	-1.795	-1.862
2	.224	.127	-.060	-4.765	-3.485	-2.706	-1.536
3	.024	-.144	-.160	-4.617	-3.346	-2.376	-.896
4	-.415	-.580	-.449	-3.887	-3.137	-2.235	-.621
5	-.762	-.910	-.587	-2.781	-2.425	-1.461	-.421
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.771	-.986	-.927	-1.343	-1.142	-.463	-.281
11	-.771	-1.124	*000.000	-.700	-.827	-.392	-.334
12	-1.602	-.874	-.671	-.224	-.430	-.170	-.134
13	-.977	-.982	-.579	-.378	-.442	-.268	-.256
14	-1.221	-1.140	-.813	-.291	-.454	-.299	-.280
15	-.818	-.812	-.182	.106	.078	.079	-.089
16	-2.488	-2.671	-1.931	-.957	-1.397	-.824	-.569
17	-3.573	-4.114	-2.969	-.832	-1.042	-.611	-.408
18	-3.955	-4.401	-3.398	-1.114	-1.821	-.756	-.561
19	-4.120	-4.524	-3.248	-.905	-.804	-.441	-.477
20	-3.274	-3.614	-2.501	-.513	-.462	-.338	-.524
21	-2.780	-2.712	-1.859	-.308	-.378	-.260	-.323
22	-1.417	-1.355	-1.093	-.331	-.343	-.270	-.382
23	-1.048	-.726	-.305	-.190	-.218	-.238	-.298
24	-.994	-.624	-.207	-.088	-.146	-.145	-.231
25	.775	1.080	.845	-1.799	-.456	.032	-.887
26	.321	.740	.833	.551	*000.000	.989	.011
27	-.329	.175	.410	.983	.928	.624	.155
28	-.202	.121	.265	.863	.645	.358	.054
29	-.091	.459	.558	.708	.595	.471	.294
30	.079	.788	.773	.828	.687	.690	.101
31	.701	1.130	1.026	1.064	.937	.910	.202
32	.624	1.017	.947	.962	.878	.908	.756
33	.320	.723	.742	.667	.634	.526	.301

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.656	.777	.461	-4.133	-2.575	-2.054	-1.492
2	.194	.076	-.095	-4.630	-3.358	-2.412	-1.798
3	-.099	-.253	-.285	-4.430	-3.466	-2.074	-1.266
4	-.541	-.681	-.541	-3.883	-3.098	-1.748	-.398
5	-.747	-1.019	-.838	-2.816	-2.493	-1.182	-.266
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.787	-1.041	-.951	-1.084	-1.058	-.494	-.280
11	-.801	-1.097	*000.000	-.528	-.568	-.345	-.302
12	-.417	-.908	-.573	-.276	-.486	-.328	-.463
13	-1.087	-1.123	-.809	-.440	-.367	-.341	-.317
14	-1.322	-1.244	-.789	-.320	-.290	-.300	-.206
15	-.827	-.804	-.071	-.018	.034	.044	-.118
16	-2.775	-3.057	-2.070	-.721	-.788	-.598	-.419
17	-3.682	-4.355	-2.754	-.688	-.726	-.433	-.443
18	-4.349	-4.807	-3.687	-.780	-.713	-.539	-.449
19	-4.413	-4.714	-3.105	-.620	-.651	-.449	-.463
20	-3.321	-3.695	-2.384	-.502	-.492	-.339	-.367
21	-2.693	-2.858	-1.955	-.366	-.403	-.325	-.470
22	-1.704	-2.001	-1.427	-.412	-.385	-.412	-.499
23	-1.017	-.677	-.351	-.258	-.256	-.320	-.371
24	-1.079	-.460	.007	-.293	-.251	-.302	-.374
25	.820	1.120	1.024	-1.898	-.649	-.285	-1.152
26	.285	.763	.873	.470	*000.000	.907	-.047
27	-.347	.188	.428	.952	.926	.631	.086
28	-.222	.116	.347	.778	.566	.302	.044
29	-.137	.438	.654	.704	.574	.497	.271
30	.022	.729	.750	.652	.619	.669	.024
31	.633	1.094	1.134	.978	.876	.839	.059
32	.588	1.023	1.122	.885	.861	.895	.543
33	.371	.738	.847	.559	.668	.518	.272

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.776	.795	.419	-3.845	-2.446	-1.996	-1.128
2	.117	-.025	-.258	-4.713	-3.594	-2.276	-.367
3	-.150	-.327	-.363	-3.020	-3.160	-2.428	-.413
4	-.609	-.759	-.724	-3.711	-3.231	-1.855	-.209
5	-.845	-1.040	-.765	-1.471	-2.160	-1.178	-.481
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.889	-1.088	-1.041	-.975	-.844	-.410	-.288
11	-.901	-1.199	*000.000	-.435	-.483	-.328	-.245
12	-.977	-.947	-.675	-.215	-.403	-.298	-.291
13	-1.139	-1.130	-.776	-.319	-.396	-.316	-.256
14	-1.417	-1.280	-.853	-.324	-.328	-.292	-.241
15	-.999	-.771	-.298	.090	.081	.027	-.073
16	-2.683	-2.929	-1.857	-.499	-.624	-.545	-.429
17	-3.928	-4.582	-2.959	-.742	-.801	-.431	-.341
18	-4.372	-4.878	-3.482	-.630	-.830	-.617	-.523
19	-4.469	-4.667	-3.106	-.471	-.803	-.565	-.343
20	-3.642	-4.018	-2.580	-.435	-.486	-.416	-.340
21	-3.143	-2.994	-1.727	-.360	-.573	-.465	-.421
22	-1.840	-2.056	-1.386	-.322	-.377	-.344	-.394
23	-1.178	-.740	-.396	-.222	-.300	-.360	-.380
24	-1.140	-.333	-.175	-.191	-.197	-.291	-.193
25	.753	1.121	.853	-1.822	-.554	-.312	-.808
26	.244	.805	.908	.556	*000.000	.523	-.120
27	-.367	.259	.290	.970	.891	.406	.023
28	-.282	.086	.173	.797	.589	.201	.061
29	-.194	.402	.466	.602	.529	.414	.259
30	-.049	.743	.651	.707	.608	.711	.098
31	.568	1.138	1.046	.950	.927	.767	.091
32	.526	1.017	.948	.773	.841	.730	.446
33	.299	.762	.806	.500	.650	.430	.380

Table 4.- Continued.

(a) $C_{T,s} = 0.90$, $q_s = 20.19$

$\alpha = 65°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.745	.729	.348	-2.999	-2.392	-2.083	-1.050
2	.108	-.067	-.141	-2.998	-2.838	-2.565	-.490
3	-.227	-.439	-.535	-3.181	-3.268	-2.170	-.336
4	-.573	-.779	-.693	-2.820	-2.572	-1.382	-.281
5	-.959	-1.103	-.856	-.724	-1.896	-.799	-.281
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-.974	-1.133	-1.000	-.662	-.617	-.284	-.286
11	-1.034	-1.266	.000,000	-.426	-.477	-.325	-.324
12	-.929	-1.007	-.627	-.249	-.427	-.333	-.296
13	-1.210	-1.131	-.632	-.320	-.350	-.270	-.183
14	-1.498	-1.344	-.800	-.290	-.312	-.191	-.360
15	-1.102	-.826	-.142	.066	-.060	.034	-.114
16	-2.859	-3.127	-2.281	-.661	-.783	-.498	-.297
17	-4.246	-4.417	-2.145	-.692	-.730	-.514	-.331
18	-4.370	-4.001	-2.034	-.566	-.579	-.536	-.378
19	-4.418	-4.426	-2.734	-.500	-.542	-.573	-.490
20	-3.831	-3.985	-2.331	-.478	-.474	-.387	-.389
21	-3.147	-2.629	-1.299	-.361	-.382	-.353	-.327
22	-1.900	-2.011	-1.262	-.265	-.381	-.326	-.398
23	-1.105	-.781	-.438	-.295	-.268	-.285	-.259
24	-.939	-.201	-.151	-.217	-.231	-.238	-.295
25	.808	1.169	.900	-1.330	-.383	-.444	-.439
26	.264	.829	.879	.629	.000,000	.447	-.180
27	-.473	.206	.358	.941	.422	.483	.108
28	-.322	.085	.224	.711	.515	.193	.050
29	-.222	.426	.512	.612	.438	.273	.163
30	-.054	.757	.890	.613	.561	.754	-.051
31	.471	1.092	1.056	.886	.840	.832	-.084
32	.477	1.002	1.015	.617	.775	.774	.398
33	.349	.730	.819	.514	.648	.382	.263

$\alpha = 70°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.746	.671	.225	-3.311	-2.342	-1.691	-.317
2	-.062	-.173	-.311	-3.711	-2.580	-1.509	-.096
3	-.499	-.458	-.412	-3.198	-2.803	-1.731	-.106
4	-.736	-.615	-.443	-1.684	-2.323	-1.279	-.149
5	-1.088	-1.182	-.747	-1.817	-1.807	-.320	-.095
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-1.014	-1.088	-.741	-.471	-.421	-.151	-.061
11	-1.089	-1.168	.000,000	-.343	-.345	-.099	-.079
12	-.922	-.926	-.553	-.199	-.301	-.149	-.143
13	-1.122	-.991	-.494	-.273	-.253	-.203	-.161
14	-1.376	-1.072	-.492	-.211	-.267	-.139	-.154
15	-.941	-.860	-.074	-.138	.106	.163	-.052
16	-2.515	-2.847	-1.086	-.497	-.504	-.300	-.150
17	-3.717	-3.470	-1.577	-.448	-.445	-.195	-.244
18	-4.361	-3.920	-1.824	-.444	-.443	-.282	-.349
19	-4.220	-4.173	-2.731	-.760	-.442	-.240	-.229
20	-3.780	-3.457	-1.822	-.305	-.339	-.325	-.260
21	-2.784	-2.370	-1.141	-.257	-.250	-.314	-.314
22	-2.017	-1.413	-.548	-.204	-.218	-.238	-.309
23	-1.141	-.534	-.471	-.174	-.179	-.238	-.224
24	-.898	-.147	-.154	-.143	-.184	-.210	-.334
25	.722	1.119	.810	-1.359	-.434	-.522	-.638
26	.234	.513	.840	.559	.000,000	.480	-.150
27	-.526	.231	.467	.994	.890	.376	.077
28	-.303	.085	.259	.750	.606	.198	.021
29	-.216	.385	.467	.814	.426	.243	.140
30	-.107	.583	.840	.927	.648	.648	.114
31	.447	1.091	.989	.894	.765	.622	.069
32	.444	1.006	1.003	.889	.735	.697	.383
33	.328	.733	.834	.512	.596	.412	.234

$\alpha = 75°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.694	.669	.113	-3.200	-2.091	-1.688	-.555
2	.032	-.158	-.204	-3.491	-2.817	-1.755	-.138
3	-.342	-.511	-.480	-3.808	-2.852	-1.512	-.069
4	-.681	-.873	-.691	-3.443	-2.659	-1.071	-.134
5	-1.043	-1.155	-.776	-1.030	-1.926	-.820	-.274
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-1.130	-1.187	-.978	-.792	-.580	-.121	-.023
11	-1.088	-1.129	.000,000	-.345	-.329	-.124	-.054
12	-.871	-.928	-.555	-.237	-.330	-.188	-.110
13	-1.120	-.965	-.406	-.229	-.302	-.281	-.247
14	-1.382	-1.221	-.616	-.220	-.279	-.180	-.189
15	-1.037	-.868	-.006	.067	.076	.203	-.104
16	-2.552	-2.499	-1.351	-.544	-.481	-.298	-.108
17	-3.686	-3.667	-1.796	-.508	-.572	-.454	-.250
18	-4.249	-4.338	-2.546	-.731	-.484	-.307	-.181
19	-4.297	-4.005	-2.172	-.411	-.372	-.267	-.175
20	-3.332	-2.926	-1.543	-.383	-.306	-.242	-.233
21	-2.786	-2.055	-1.030	-.316	-.308	-.327	-.270
22	-1.955	-1.700	-.824	-.198	-.177	-.194	-.147
23	-1.146	-.566	-.417	-.201	-.230	-.232	-.225
24	-.987	-.205	-.120	-.160	-.117	-.106	-.032
25	.774	1.147	.816	-1.333	-.487	-.854	-.760
26	.266	.903	.816	.595	.000,000	.347	-.084
27	-.403	.271	.468	.885	.785	.352	.044
28	-.363	.094	.252	.815	.603	.147	.093
29	-.217	.369	.453	.544	.404	.253	.198
30	-.091	.725	.647	.527	.476	.469	0.
31	.496	1.122	1.003	.824	.782	.734	-.084
32	.508	1.015	1.019	.608	.783	.724	.367
33	.242	.727	.803	.595	.807	.378	.122

$\alpha = 80°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.885	.626	.127	-3.693	-2.586	-1.717	-.447
2	-.081	-.156	-.216	-3.946	-2.937	-1.435	-.110
3	-.371	-.496	-.373	-3.594	-3.050	-1.126	-.215
4	-.814	-.880	-.515	-2.305	-2.413	-.709	-.185
5	-1.208	-1.245	-.719	-2.363	-1.943	-.377	-.314
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-1.153	-1.148	-.942	-.861	-.695	-.263	-.236
11	-1.154	-1.192	.000,000	-.341	-.368	-.175	-.041
12	-.831	-.944	-.612	-.238	-.384	-.322	-.289
13	-1.146	-1.046	-.532	-.302	-.361	-.291	-.328
14	-1.280	-1.083	-.527	-.261	-.246	-.221	-.249
15	-.914	-.853	-.149	-.096	.087	.123	-.036
16	-2.503	-2.804	-1.632	-.545	-.636	-.391	-.340
17	-3.724	-4.093	-2.307	-.784	-.725	-.426	-.467
18	-4.073	-4.148	-2.475	-.626	-.565	-.368	-.265
19	-4.153	-4.063	-3.011	-.533	-.658	-.321	-.370
20	-2.769	-3.753	-2.506	-.423	-.347	-.360	-.289
21	-1.168	-2.384	-1.969	-.315	-.320	-.284	-.261
22	-1.714	-1.783	-1.145	-.264	-.229	-.239	-.231
23	-1.013	-.585	-.414	-.246	-.214	-.272	-.231
24	-.922	-.213	-.135	-.233	-.299	-.304	-.294
25	.946	1.093	.765	-1.513	-.553	-.715	-.566
26	.703	.883	.883	.586	.000,000	.265	-.200
27	-.567	.201	.427	.882	.761	.321	-.004
28	-.382	.052	.221	.831	.436	.167	-.049
29	-.262	.397	.482	.533	.396	.207	.134
30	-.124	.715	.611	.555	.454	.537	.011
31	.407	1.042	.931	.726	.700	.651	-.044
32	.442	1.017	.975	.558	.711	.665	.211
33	.246	.695	.775	.434	.550	.373	.215

Table 4. - Continued.

(b) $C_{T,S} = 0.80$, $q_s = 20.02$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.623	1.694	.670	-.587	-.017	.473	.183
2	1.438	1.088	.822	-1.150	-.789	-.272	-.555
3	1.445	.946	.775	-1.195	-1.199	-.668	-.664
4	.933	.586	.557	-1.188	-1.359	-.971	-.831
5	.624	.131	.189	-1.344	-1.408	-1.128	-.849
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	.334	-.193	-.506	-1.134	-.944	-.654	-.339
11	.227	-.695	*000.000	-1.147	-1.133	-.773	-.435
12	-.120	-.628	-.585	-.698	-.808	-.539	-.398
13	.280	-.648	-.588	-.691	-.763	-.564	-.413
14	.162	-.688	-.671	-.780	-.833	-.651	-.453
15	.347	-2.081	.050	-.095	-.041	.025	-.013
16	-.607	-1.472	-1.142	-1.530	-1.804	-1.590	-.942
17	-1.278	-2.214	-1.642	-2.064	-2.468	-2.022	-1.309
18	-1.462	-2.150	-2.106	-2.220	-2.644	-2.481	-1.605
19	-1.503	-2.224	-1.804	-2.097	-2.511	-2.255	-1.538
20	-.905	-1.098	-1.166	-1.530	-1.717	-1.875	-1.464
21	-.611	-.583	-.491	-.653	-.758	-1.360	-1.027
22	-.075	-.360	-.416	-.319	-.317	-1.049	-.801
23	.143	-.325	-.329	-.273	-.234	-.431	-.633
24	.217	-.283	-.237	-.247	-.306	-.012	-.518
25	.879	.061	-.396	.503	1.039	1.081	.774
26	.205	-.760	-.514	.662	*000.000	.918	.763
27	.094	-.527	-.278	.651	.837	.445	.333
28	.457	.084	.147	.633	.491	.364	.289
29	.772	.502	.441	.494	.636	.621	.523
30	.566	.445	.540	.700	.753	.784	.103
31	1.537	.804	.743	.988	1.082	1.101	.588
32	1.525	1.030	.711	1.014	1.070	1.062	1.042
33	1.218	.742	.669	.724	.807	.815	.594

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.082	1.186	.440	-1.287	-.596	.097	-.052
2	.968	.992	.650	-1.942	-1.421	-.825	-.723
3	.715	.830	.493	-1.905	-1.856	-1.215	-.959
4	.317	.420	.426	-2.176	-2.044	-1.475	-1.187
5	-.108	-.057	-.021	-1.757	-1.873	-1.481	-.989
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.389	-.492	-.595	-1.271	-1.141	-.946	-.580
11	-.487	-.419	*000.000	-1.075	-1.215	-.914	-.622
12	-.626	-.680	-.717	-.687	-.871	-.666	-.404
13	-.446	-.756	-.716	-.666	-.780	-.569	-.402
14	-.626	-.796	-.796	-.709	-.793	-.644	-.438
15	-.249	-2.211	.137	-.062	-.112	.019	.089
16	-1.459	-1.681	-1.296	-1.550	-1.762	-1.588	-.866
17	-2.232	-2.719	-1.890	-2.163	-2.320	-2.027	-1.256
18	-2.422	-2.371	-2.148	-2.188	-2.574	-2.436	-1.614
19	-2.513	-2.408	-1.946	-2.139	-2.493	-2.319	-1.403
20	-1.961	-1.484	-1.480	-1.430	-1.938	-1.838	-1.213
21	-1.033	-.760	-.623	-.660	-.988	-1.215	-1.106
22	-1.167	-.423	-.377	-.259	-.303	-.758	-.845
23	-.580	-.348	-.310	-.208	-.246	-.380	-.579
24	-.540	-.307	-.347	-.148	-.278	-.323	-.511
25	.489	.400	.088	-.078	.752	.925	.683
26	-.171	-.491	-.151	.723	*000.000	1.036	.861
27	-.446	-.332	-.099	.888	.833	.635	.457
28	-.183	-.005	.285	.731	.586	.430	.410
29	.172	.454	.492	.624	.694	.702	.694
30	.145	.584	.648	.799	.786	.769	.084
31	.476	1.089	.677	1.068	1.087	1.082	.719
32	.888	1.100	.845	.991	1.029	1.023	1.021
33	.597	.757	.471	.799	.835	.767	.574

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.078	1.145	.541	-2.560	-1.243	-.392	-.513
2	.706	.818	.389	-2.857	-2.231	-1.586	-1.349
3	.537	.674	.443	-3.068	-2.801	-2.117	-1.863
4	.160	.188	.155	-2.881	-2.630	-1.998	-1.595
5	-.249	-.314	-.186	-2.595	-2.536	-2.016	-1.693
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.482	-.702	-.678	-1.563	-1.490	-1.154	-.847
11	-.590	-.996	*000.000	-1.264	-1.435	-1.023	-.769
12	-.694	-.756	-.690	-.749	-.884	-.628	-.446
13	-.574	-.878	-.699	-.715	-.782	-.615	-.480
14	-.749	-.843	-.695	-.710	-.755	-.607	-.502
15	-.333	-2.197	.017	-.091	-.077	.041	-.015
16	-1.997	-1.998	-1.491	-1.808	-1.728	-1.538	-1.094
17	-2.934	-2.973	-2.196	-1.982	-2.199	-1.927	-1.540
18	-2.714	-2.976	-2.438	-2.117	-2.330	-2.178	-1.841
19	-2.842	-2.939	-2.506	-2.120	-2.362	-2.264	-1.581
20	-2.188	-1.924	-1.518	-1.441	-1.363	-1.769	-1.657
21	-1.734	-.870	-.741	-.841	-.770	-1.338	-1.101
22	-1.266	-.466	-.297	-.439	-.175	-.728	-.971
23	-.746	-.402	-.265	-.252	-.254	-.403	-.723
24	-.692	-.421	-.327	-.218	-.244	-.350	-.423
25	.655	.721	.514	-1.027	.359	.789	.499
26	.049	-.002	.350	.609	*000.000	1.029	.709
27	-.354	-.150	.175	.863	.949	.704	.458
28	-.134	.075	.338	.785	.690	.439	.324
29	.156	.481	.604	.653	.684	.618	.550
30	.250	.666	.660	.812	.821	.849	.042
31	.903	1.116	.813	1.034	1.066	1.082	.464
32	.863	1.105	.966	1.017	1.039	.987	.804
33	.575	.805	.700	.850	.865	.744	.491

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.043	1.145	.603	-3.617	-2.239	-.991	-1.097
2	.585	.940	.228	-4.155	-3.129	-2.108	-1.804
3	.360	.300	.111	-4.165	-3.475	-2.240	-1.997
4	-.055	-.142	-.291	-3.803	-3.273	-2.371	-2.011
5	-.414	-.611	-.512	-2.866	-2.760	-2.168	-1.717
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.745	-.863	-.848	-1.747	-1.719	-1.291	-.962
11	-.940	-1.123	*000.000	-1.310	-1.544	-1.091	-.800
12	-.964	-.830	-.794	-.759	-.976	-.696	-.509
13	-.839	-.898	-.886	-.787	-.892	-.582	-.433
14	-.838	-1.012	-.845	-.810	-.947	-.643	-.498
15	-.501	-2.203	-.170	-.147	-.207	-.041	.005
16	-1.921	-2.222	-1.639	-1.625	-2.036	-1.576	-1.131
17	-2.800	-3.306	-2.583	-1.703	-2.725	-1.861	-1.538
18	-3.175	-3.057	-3.067	-2.052	-3.162	-2.357	-1.819
19	-3.083	-3.203	-2.816	-1.816	-2.959	-2.212	-1.741
20	-2.506	-2.179	-1.543	-1.428	-2.360	-1.997	-1.526
21	-2.216	-1.648	-1.185	-1.003	-1.787	-1.434	-1.332
22	-1.271	-.596	-.508	-.819	-.781	-.752	-.974
23	-.738	-.481	-.411	-.177	-.297	-.280	-.557
24	-.747	-.539	-.445	-.182	-.205	-.313	-.311
25	.767	1.000	.646	-1.594	-.097	.548	.220
26	.207	.377	.539	.541	*000.000	1.104	.725
27	-.280	-.039	.226	.880	.970	.823	.448
28	-.121	.169	.276	.927	.764	.484	.280
29	.143	.546	.583	.736	.747	.677	.636
30	.091	.720	.649	.846	.813	.852	.209
31	.886	1.144	.859	1.001	1.025	1.040	.474
32	.808	1.084	.873	1.042	1.027	1.017	.896
33	.476	.783	.635	.829	.886	.758	.533

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.955	.933	.417	-4.374	-2.927	-1.520	-1.503
2	.341	.220	-.238	-4.907	-3.857	-2.684	-2.337
3	.138	-.080	-.375	-4.876	-4.183	-2.987	-2.334
4	-.350	-.541	-.749	-4.481	-3.939	-3.063	-2.396
5	-.671	-.924	-.710	-3.238	-3.100	-2.598	-2.063
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.690	-1.058	-1.296	-1.915	-1.918	-1.540	-1.064
11	-.716	-1.209	*000.000	-1.273	-1.560	-1.190	-.846
12	-1.145	-.995	-.940	-.829	-1.066	-.794	-.584
13	-.805	-1.025	-.912	-.739	-.893	-.691	-.523
14	-.988	-1.097	-1.057	-.744	-.915	-.681	-.497
15	-.648	-2.229	-.396	-.121	-.175	-.034	-.141
16	-2.124	-2.503	-1.681	-1.589	-2.098	-1.791	-1.113
17	-3.056	-3.567	-2.713	-1.999	-2.748	-2.090	-1.448
18	-3.523	-3.559	-3.335	-2.128	-3.086	-2.531	-1.886
19	-3.378	-3.594	-3.151	-1.711	-2.984	-2.497	-1.580
20	-2.941	-2.627	-2.130	-1.388	-2.240	-1.997	-1.483
21	-2.432	-1.378	-.915	-1.077	-1.662	-1.498	-1.244
22	-1.322	-.883	-.742	-.695	-.894	-.967	-.928
23	-.923	-.600	-.442	-.253	-.200	-.349	-.537
24	-.969	-.597	-.530	-.062	-.092	-.032	-.223
25	.920	1.067	.732	-2.182	.876	.214	-.202
26	.422	.713	.611	.437	*000.000	1.092	.641
27	-.138	.192	.344	.930	1.046	.826	.429
28	-.096	.179	.376	.896	.806	.518	.265
29	.075	.515	.569	.864	.725	.618	.564
30	.222	.788	.692	.865	.816	.784	.176
31	.794	1.103	.819	1.034	1.000	.983	.214
32	.861	1.093	1.011	1.105	1.073	1.048	.921
33	.575	.772	.593	.887	.872	.717	.533

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.920	.833	.196	-5.254	-3.640	-1.893	-1.918
2	.203	.009	-.444	-6.160	-4.676	-3.098	-2.502
3	-.080	-.346	-.572	-5.484	-4.460	-3.019	-2.259
4	-.467	-.709	-.818	-4.875	-4.090	-3.042	-2.164
5	-.804	-1.144	-1.042	-3.700	-3.404	-2.606	-1.660
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.785	-1.188	-1.311	-2.029	-1.892	-1.404	-.782
11	-.777	-1.205	*000.000	-1.270	-1.390	-.918	-.554
12	-1.231	-1.006	-.913	-.809	-.843	-.566	-.388
13	-.940	-1.031	-.913	-.707	-.841	-.444	-.372
14	-1.231	-1.167	-.880	-.724	-.774	-.498	-.465
15	-.416	-2.094	-.149	-.102	-.130	-.041	-.058
16	-2.487	-2.583	-2.024	-1.544	-1.600	-1.045	-.725
17	-3.548	-3.953	-2.941	-1.815	-2.214	-1.971	-1.647
18	-4.022	-4.071	-3.129	-1.924	-1.943	-1.783	-1.578
19	-4.156	-3.877	-3.147	-1.797	-1.662	-1.841	-1.547
20	-3.205	-2.941	-2.485	-1.323	-1.700	-1.641	-1.563
21	-2.893	-2.069	-1.316	-1.062	-.981	-1.462	-1.318
22	-1.739	-.886	-.574	-.694	-.782	-.673	-.503
23	-1.124	-.558	-.439	-.208	-.245	-.432	-.400
24	-1.065	-.574	-.309	-.065	-.184	-.252	-.288
25	.944	1.210	.946	-2.672	-1.037	.229	-.654
26	.445	.883	.781	.359	*000.000	1.035	.263
27	-.103	.355	.624	.945	1.053	.799	.262
28	-.093	.288	.559	.943	.859	.478	.130
29	.077	.558	.673	.758	.717	.601	.484
30	.141	.944	.786	.912	.852	.808	.258
31	.775	1.247	1.248	1.082	1.063	.994	.271
32	.798	1.124	1.076	1.112	1.050	1.036	.864
33	.506	.788	.893	.906	.809	.644	.415

Table 4.- Continued.

(b) $C_{T,s} = 0.80$, $q_s = 20.02$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.765	.552	-.095	-5.844	-3.844	-2.097	-2.310
2	-.018	-.357	-.744	-6.243	-4.179	-3.248	-2.505
3	-.295	-.781	-1.078	-6.234	-4.240	-3.303	-2.521
4	-.751	-1.100	-1.178	-5.436	-4.508	-3.326	-2.420
5	-1.019	-1.449	-1.372	-4.174	-3.056	-2.717	-1.731
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.859	-1.294	-1.441	-2.063	-1.899	-1.309	-.615
11	-.860	-1.333	*000.000	-1.239	-1.314	-.774	-.521
12	-1.213	-1.047	-.975	-.714	-.809	-.546	-.423
13	-1.074	-1.195	-1.015	-.674	-.649	-.498	-.349
14	-1.369	-1.305	-.946	-.673	-.649	-.443	-.329
15	-.987	-1.498	-.232	-.101	-.102	.006	.108
16	-2.732	-2.943	-2.388	-1.376	-1.389	-.808	-.604
17	-3.880	-4.023	-3.037	-1.634	-1.930	-.917	-.701
18	-4.469	-4.417	-3.471	-1.997	-2.275	-.843	-.706
19	-4.138	-4.137	-3.615	-1.688	-2.228	-.976	-.661
20	-3.637	-3.297	-2.438	-1.321	-1.480	-.767	-.630
21	-2.447	-2.094	-1.598	-.983	-1.053	-.562	-.426
22	-1.637	-1.184	-.744	-.676	-.706	-.390	-.374
23	-1.102	-.714	-.402	-.329	-.276	-.425	-.301
24	-1.130	-.883	-.448	-.114	-.310	-.310	-.349
25	1.009	1.192	.814	-3.071	-1.276	-.042	-1.049
26	.512	1.051	1.012	.313	*000.000	1.124	-.023
27	-.049	.441	.671	1.006	1.083	.836	.178
28	-.059	.306	.472	.951	.868	.452	.123
29	.012	.568	.801	.791	.721	.569	.360
30	.133	.791	.871	.788	.744	.749	.130
31	.694	1.182	1.084	1.080	.994	1.008	.257
32	.711	1.041	1.031	1.056	.984	.937	.667
33	.445	.790	.878	.916	.917	.618	.434

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.700	.448	-.310	-6.745	-4.505	-2.504	-2.408
2	-.207	-.644	-1.047	-7.048	-5.343	-3.581	-2.370
3	-.440	-1.003	-1.340	-6.536	-5.234	-3.644	-2.001
4	-.842	-1.441	-1.497	-5.493	-4.493	-3.185	-1.745
5	-1.154	-1.685	-1.817	-4.204	-3.352	-2.583	-1.001
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.002	-1.434	-1.514	-2.116	-1.939	-1.149	-.439
11	-.474	-1.341	*000.000	-1.130	-1.129	-.733	-.524
12	-1.322	-1.094	-.991	-.631	-.675	-.435	-.423
13	-1.134	-1.215	-.950	-.522	-.716	-.380	-.328
14	-1.432	-1.285	-1.081	-.615	-.670	-.396	-.340
15	-1.003	-1.445	-.249	-.030	0.	.131	-.196
16	-2.547	-2.788	-2.230	-1.514	-1.365	-.737	-.589
17	-3.413	-3.582	-1.479	-1.688	-1.535	-.672	
18	-4.134	-4.443	-3.672	-1.502	-1.388	-.583	-.488
19	-4.004	-4.447	-4.275	-1.263	-1.008	-.491	-.443
20	-3.655	-3.192	-3.023	-1.119	-.910	-.583	-.420
21	-2.053	-2.385	-2.001	-.801	-.647	-.478	-.438
22	-1.484	-1.265	-1.172	-.708	-.774	-.480	-.421
23	-1.194	-.917	-.994	-.272	-.345	-.421	-.430
24	-1.055	-.994	-.597	-.388	-.332	-.275	-.318
25	1.072	1.251	.811	-3.442	-1.434	-.223	-1.442
26	.870	1.144	1.135	.235	*000.000	.877	-.245
27	-.025	.588	.767	.973	1.045	.751	.167
28	-.071	.479	.524	1.000	.903	.313	.104
29	-.042	.553	.852	.764	.657	.483	.382
30	.049	.904	.896	.852	.750	.814	.010
31	.554	1.176	1.164	1.074	.952	.963	.057
32	.665	1.065	1.112	.979	.941	.874	.485
33	.464	.808	.944	.854	.744	.705	.328

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.543	.144	-.547	-3.532	-3.491	-2.244	-1.620
2	-.395	-.911	-1.322	-3.594	-3.642	-2.815	-.925
3	-.871	-1.197	-1.337	-2.351	-3.546	-3.224	-1.509
4	-1.044	-1.594	-1.391	-2.179	-2.749	-2.896	-.711
5	-1.366	-1.663	-1.303	-.936	-2.068	-2.318	-.870
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.120	-1.434	-1.340	-.821	-.924	-.715	-.198
11	-1.005	-1.288	*000.000	-.751	-.830	-.518	-.339
12	-1.065	-1.047	-.758	-.548	-.751	-.460	-.049
13	-1.243	-1.157	-.706	-.509	-.532	-.369	-.293
14	-1.593	-1.434	-.745	-.505	-.498	-.340	-.173
15	-1.140	-1.904	-.126	-.005	-.047	-.052	-.039
16	-3.114	-3.037	-1.741	-.943	-.976	-.864	-.631
17	-4.382	-4.726	-2.535	-1.015	-.803	-.650	-.515
18	-5.035	-4.673	-2.804	-.986	-.708	-.481	-.184
19	-4.892	-4.332	-2.272	-.792	-.687	-.545	-.218
20	-4.327	-4.104	-2.441	-.587	-.624	-.456	-.251
21	-2.990	-3.221	-2.320	-.571	-.372	-.285	-.219
22	-1.911	-2.196	-1.728	-.582	-.514	-.443	-.371
23	-1.498	-1.780	-1.568	-.274	-.324	-.345	-.218
24	-1.313	-1.385	-1.201	-.314	-.240	-.330	-.145
25	.948	1.140	.845	-1.758	-.988	-.440	-1.518
26	.860	1.080	1.080	.516	*000.000	.801	-.123
27	-.022	.665	.851	1.071	1.150	.797	.207
28	-.101	.377	.594	.952	.842	.428	.254
29	-.088	.543	.819	.876	.852	.455	.348
30	-.047	.862	.810	.870	.782	.741	.032
31	.448	1.126	1.049	1.045	.966	.862	.118
32	.543	1.103	1.135	1.083	.953	.910	.741
33	.388	.772	.911	.726	.741	.553	.293

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.504	.149	-.578	-2.778	-2.648	-2.317	-1.435
2	-.367	-1.017	-1.403	-2.508	-3.023	-3.082	-1.333
3	-.849	-1.173	-1.234	-1.659	-2.717	-2.797	-1.132
4	-1.205	-1.562	-1.276	-.618	-2.410	-2.274	-.593
5	-1.362	-1.645	-1.331	-.440	-.941	-1.414	-.488
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.102	-1.281	-1.035	-.420	-.441	-.456	-.334
11	-1.098	-1.212	*000.000	-.420	-.322	-.241	-.329
12	-.974	-.944	-.594	-.404	-.593	-.324	-.206
13	-1.372	-1.156	-.546	-.442	-.364	-.251	-.351
14	-1.594	-1.190	-.640	-.384	-.314	-.310	-.404
15	-1.273	-1.438	.072	.089	.145	.110	-.153
16	-2.945	-2.702	-1.672	-.771	-.746	-.831	-.731
17	-3.988	-3.804	-1.575	-.630	-.705	-.627	-.640
18	-4.902	-4.530	-1.740	-.751	-.657	-.614	-.448
19	-4.865	-4.854	-2.148	-.670	-.684	-.649	-.494
20	-4.057	-3.494	-1.923	-.560	-.707	-.610	-.609
21	-3.256	-2.902	-1.934	-.450	-.456	-.493	-.430
22	-2.240	-1.726	-1.148	-.368	-.318	-.401	-.455
23	-1.287	-.977	-.983	-.329	-.299	-.314	-.295
24	-.928	-.960	-.648	-.274	-.268	-.305	-.319
25	1.042	1.140	.892	-1.495	-.737	-.598	-1.169
26	.888	1.145	1.080	.859	*000.000	.472	-.189
27	.022	.842	.867	1.038	1.030	.583	.050
28	-.123	.384	.507	.878	.767	.399	.061
29	-.113	.531	.809	.713	.613	.425	.198
30	-.179	.897	.815	.772	.717	.724	-.027
31	.474	1.153	1.147	1.078	.938	.936	-.054
32	.533	1.078	1.103	.965	.950	.895	.388
33	.354	.778	.866	.755	.673	.476	.284

Table 4. - Continued.

(b) $C_{T,s} = 0.80$, $q_s = 20.02$

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.421	.016	-.695	-2.785	-2.537	-2.056	-.633
2	-.500	-1.095	-1.342	-2.437	-3.096	-2.734	-.342
3	-.883	-1.468	-1.432	-1.418	-2.637	-2.074	-.617
4	-1.334	-1.744	-1.641	-.604	-2.388	-1.605	-.299
5	-1.826	-1.951	-1.534	-.548	-1.691	-.686	-.359
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.244	-1.333	-.994	-.409	-.449	-.306	-.217
11	-1.117	-1.186	.000.000	-.362	-.343	-.306	-.274
12	-.928	-1.021	-.650	-.328	-.385	-.274	-.207
13	-1.262	-.936	-.466	-.378	-.332	-.306	-.280
14	-1.594	-1.227	-.641	-.370	-.306	-.270	-.268
15	-1.267	-1.723	.038	.086	.086	.173	-.095
16	-2.447	-2.344	-1.491	-.644	-.690	-.638	-.563
17	-4.248	-4.767	-1.977	-.900	-.812	-.608	-.451
18	-4.807	-4.824	-1.946	-.608	-.535	-.533	-.453
19	-4.584	-4.374	-1.826	-.630	-.506	-.477	-.380
20	-3.878	-2.946	-1.587	-.537	-.425	-.390	-.421
21	-3.363	-2.320	-.897	-.433	-.419	-.374	-.312
22	-2.133	-1.712	-1.092	-.388	-.351	-.355	-.389
23	-1.470	-.891	-.582	-.354	-.361	-.350	-.329
24	-.901	-.225	-.215	-.280	-.247	-.286	-.240
25	.995	1.083	.930	-1.274	-.721	-.679	-.661
26	.594	1.162	1.052	.639	.000.000	.375	-.204
27	.023	.677	.838	1.041	1.106	.422	.114
28	-.132	.398	.526	.861	.705	.309	.147
29	-.185	.545	.619	.852	.544	.381	.222
30	-.136	.811	.747	.733	.615	.688	-.038
31	.390	1.172	1.138	1.058	.939	.822	-.039
32	.528	1.085	1.100	.913	.908	.863	.280
33	.330	.784	.886	.643	.885	.459	.220

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.296	-.177	-.841	-3.156	-3.310	-1.852	-.356
2	-.740	-1.295	-1.441	-2.278	-3.050	-1.507	-.340
3	-1.162	-1.650	-1.542	-1.487	-2.702	-1.003	-.272
4	-1.533	-1.884	-1.619	-.786	-2.383	-.490	-.107
5	-1.841	-1.874	-1.349	-.458	-1.410	-.318	-.332
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.382	-1.552	-1.309	-.418	-.433	-.366	-.351
11	-1.247	-1.322	.000.000	-.361	-.343	-.224	-.181
12	-.927	-1.039	-.548	-.275	-.340	-.210	-.228
13	-1.328	-1.025	-.472	-.245	-.279	-.250	-.189
14	-1.733	-1.250	-.617	-.300	-.271	-.225	-.284
15	-1.420	-1.754	-.035	.095	.016	.093	-.118
16	-3.230	-2.723	-1.353	-.731	-.788	-.581	-.357
17	-4.233	-3.165	-1.448	-.583	-.568	-.457	-.333
18	-5.033	-3.880	-1.928	-.610	-.627	-.494	-.423
19	-4.829	-3.452	-1.588	-.508	-.517	-.408	-.283
20	-3.934	-2.802	-1.574	-.492	-.466	-.436	-.256
21	-3.003	-2.623	-1.490	-.477	-.481	-.306	-.286
22	-2.129	-1.814	-.996	-.338	-.349	-.394	-.357
23	-1.591	-.805	-.449	-.347	-.313	-.334	-.321
24	-.696	-.251	-.287	-.254	-.267	-.214	-.202
25	1.021	1.043	.523	-1.686	-1.105	-.990	-.619
26	.710	1.156	1.109	.637	.000.000	.124	-.153
27	-.007	.717	.885	1.058	1.050	.234	.051
28	-.182	.358	.515	.872	.655	.221	.090
29	-.204	.522	.630	.714	.494	.312	.205
30	-.257	.816	.741	.741	.573	.640	-.148
31	.344	1.117	1.109	1.010	.874	.818	-.088
32	.483	1.128	1.201	.807	.949	.856	.240
33	.273	.781	.935	.549	.692	.477	.135

$\alpha = 65°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.029	-.263	-.902	-2.378	-2.873	-1.541	-.234
2	-1.015	-1.498	-1.544	-2.059	-2.887	-.497	-.257
3	-1.363	-1.701	-1.691	-1.453	-2.179	-.665	-.291
4	-1.708	-1.997	-1.632	-.419	-1.777	-.370	-.341
5	-1.928	-2.154	-1.588	-.386	-.643	-.308	-.320
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.527	-1.682	-1.114	-.293	-.461	-.346	-.246
11	-1.379	-1.345	.000.000	-.298	-.374	-.250	-.241
12	-.950	-1.014	-.580	-.254	-.350	-.241	-.214
13	-1.481	-1.078	-.469	-.309	-.275	-.211	-.179
14	-1.911	-1.057	-.490	-.342	-.305	-.240	-.258
15	-1.394	-1.901	.059	.080	.037	.064	-.241
16	-3.188	-2.475	-1.336	-.618	-.611	-.371	-.211
17	-4.445	-3.893	-2.154	-.593	-.847	-.464	-.269
18	-4.862	-3.541	-2.182	-.501	-.546	-.502	-.483
19	-4.666	-3.495	-2.088	-.479	-.549	-.370	-.280
20	-3.752	-2.854	-1.671	-.479	-.510	-.512	-.431
21	-3.063	-2.105	-1.180	-.423	-.376	-.271	-.222
22	-1.973	-1.594	-1.084	-.397	-.354	-.307	-.311
23	-1.482	-.598	-.511	-.350	-.390	-.356	-.349
24	-.481	-.224	-.224	-.269	-.264	-.299	-.324
25	.940	1.061	.892	-1.242	-.955	-1.114	-1.063
26	.651	1.154	1.066	.688	.000.000	.014	-.201
27	-.050	.741	.898	1.047	.840	.147	-.053
28	-.243	.381	.484	.829	.523	.179	.128
29	-.246	.479	.547	.618	.378	.266	.170
30	-.331	.743	.883	.722	.432	.517	-.165
31	.250	1.132	1.121	.864	.924	.795	-.194
32	.429	1.112	1.146	.679	.784	.685	.108
33	.266	.709	.859	.469	.481	.368	.080

Table 4. - Continued.

(c) $C_{T,s} = 0.60$, $q_s = 21.72$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.136	1.204	.450	.044	.029	.395	.283
2	.774	.913	.393	-1.320	-.999	-.606	-.457
3	-.705	.629	.099	-1.153	-1.412	-.857	-.659
4	-.424	.212	-.097	-1.040	-1.708	-1.316	-1.049
5	-.183	-.240	-.448	-1.613	-1.799	-1.411	-1.188
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.248	-.676	-.901	-1.384	-1.271	-1.012	-.807
11	-.546	-.995	*000.000	-1.325	-1.411	-1.128	-.954
12	-.690	-.806	-.777	-.823	-1.011	-.813	-.621
13	-.606	-.805	-.737	-.679	-.910	-.745	-.538
14	-.666	-.858	-.789	-.800	-.967	-.844	-.634
15	-.343	-2.582	-.072	-.139	-.148	-.111	-.093
16	-1.281	-1.824	-1.386	-1.638	-2.018	-1.895	-1.165
17	-2.182	-2.940	-1.882	-2.289	-2.750	-2.441	-1.608
18	-2.699	-3.142	-1.851	-2.468	-2.977	-3.095	-1.909
19	-2.346	-2.835	-1.630	-2.411	-2.895	-2.790	-1.771
20	-1.934	-1.860	-1.308	-1.616	-1.833	-2.325	-1.688
21	-1.669	-.908	-.592	-.587	-.968	-1.448	-1.211
22	-1.169	-.513	-.422	-.285	-.335	-.914	-.786
23	-.781	-.413	-.407	-.328	-.311	-.422	-.679
24	-.508	-.352	-.346	-.238	-.309	-.531	-.558
25	-.488	.638	.347	.346	1.023	1.061	.888
26	-.936	-.099	.270	.688	*000.000	.995	.829
27	-.882	-.288	.006	.648	.701	.537	.429
28	-.345	.015	.256	.528	.495	.344	.268
29	-.576	.473	.444	.565	.649	.579	.480
30	-.719	.612	.577	.771	.760	.715	.605
31	.740	1.069	.694	.978	1.035	.996	.509
32	.210	1.048	.772	1.028	1.069	1.020	.957
33	-.952	.781	.638	.805	.837	.778	.491

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.608	1.116	.182	-2.087	-1.142	-.493	-.315
2	.575	.630	-.073	-2.881	-2.314	-1.654	-1.233
3	.243	.233	-.366	-2.820	-2.615	-2.009	-1.491
4	.115	-.145	-.491	-2.360	-2.366	-1.932	-1.500
5	-.416	-.710	-.804	-2.397	-2.528	-2.094	-1.698
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.957	-.880	-1.050	-1.505	-1.559	-1.286	-1.001
11	-.745	-1.224	*000.000	-1.536	-1.687	-1.433	-1.131
12	-1.005	-.943	-.876	-.884	-1.110	-.926	-.732
13	-.920	-.948	-.741	-.781	-.933	-.813	-.600
14	-.709	-.951	-.760	-.796	-.935	-.813	-.654
15	-.464	-2.663	-.141	-.195	-.246	-.187	-.051
16	-1.646	-1.980	-1.300	-1.620	-1.834	-1.789	-1.109
17	-1.882	-3.126	-2.212	-2.145	-2.517	-2.265	-1.617
18	-3.030	-3.302	-2.587	-2.558	-2.849	-2.819	-1.889
19	-1.488	-3.115	-2.056	-2.429	-2.572	-2.739	-1.841
20	-2.230	-1.988	-1.516	-1.936	-1.513	-1.992	-1.564
21	-1.556	-1.150	-.783	-1.213	-.903	-1.092	-1.193
22	-1.251	-.617	-.587	-.551	-.505	-.404	-.848
23	-.730	-.477	-.445	-.329	-.330	-.430	-.642
24	-.654	-.435	-.435	-.347	-.287	-.437	-.514
25	-.765	.944	.418	-.809	.480	.773	.709
26	.082	.241	.445	.611	*000.000	1.112	.927
27	-.465	-.096	.374	.816	.950	.763	.536
28	-.153	.127	.387	.670	.636	.468	.405
29	-.184	.469	.547	.641	.686	.608	.525
30	-.632	.760	.606	.845	.810	.780	-.040
31	.305	1.186	.782	1.052	1.064	1.037	.571
32	-.450	1.081	.769	.987	1.026	.992	.939
33	.113	.752	.598	.809	.797	.688	.387

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.805	.995	-.103	-3.789	-2.598	-1.567	-1.257
2	.084	.143	-.540	-4.510	-3.713	-2.737	-2.255
3	-.159	-.350	-.924	-4.349	-4.009	-3.062	-2.492
4	-.403	-.868	-1.252	-4.092	-3.896	-3.318	-2.876
5	-.812	-1.196	-1.276	-3.362	-3.336	-2.847	-2.338
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.776	-1.271	-1.438	-2.133	-2.128	-1.795	-1.490
11	-.702	-1.386	*000.000	-1.672	-1.892	-1.590	-1.297
12	-.913	-1.010	-1.020	-.933	-1.228	-1.055	-.795
13	-.612	-1.069	-.984	-.873	-1.117	-.942	-.638
14	-.934	-1.018	-.890	-.858	-1.043	-.849	-.638
15	-.545	-2.769	-.107	-.238	-.399	-.286	-.180
16	-1.101	-2.318	-1.750	-1.856	-2.008	-1.924	-1.319
17	-2.051	-3.024	-2.597	-2.208	-2.716	-2.244	-1.758
18	-2.119	-3.709	-3.037	-2.501	-3.243	-3.037	-2.143
19	-2.542	-3.700	-2.765	-2.615	-3.461	-2.804	-1.997
20	-2.221	-2.531	-1.559	-2.107	-2.134	-1.936	-1.740
21	-1.648	-1.688	-.829	-1.252	-1.355	-1.215	-1.301
22	-1.161	-.659	-.607	-.848	-1.038	-.643	-1.050
23	-.840	-.516	-.455	-.283	-.306	-.300	-.458
24	-.713	-.488	-.368	-.202	-.327	-.367	-.433
25	1.013	1.111	.542	-1.536	-.414	.156	.267
26	.034	.773	.540	.471	*000.000	1.018	.858
27	.123	.293	.559	.946	1.055	.894	.626
28	.141	.239	.467	.837	.812	.596	.470
29	.009	.642	.670	.814	.846	.719	.664
30	.410	.849	.683	.845	.815	.821	.045
31	.881	1.186	.948	1.035	1.064	1.007	.438
32	.674	1.143	.948	1.095	1.093	.993	.840
33	-.037	.774	.628	.825	.833	.695	.458

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.219	-.418	-.046	-5.190	-4.094	-2.714	-2.235
2	.680	-.511	-1.325	-6.029	-5.125	-4.107	-3.557
3	.275	-1.049	-1.773	-6.636	-5.877	-4.611	-3.939
4	.062	-1.292	-1.548	-5.092	-4.611	-3.824	-3.274
5	-.086	-1.756	-1.788	-4.171	-4.124	-3.543	-3.040
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	.004	-1.509	-1.600	-2.475	-2.479	-2.168	-1.845
11	-.047	-1.565	*000.000	-1.791	-2.075	-1.731	-1.491
12	-.376	-1.196	-1.157	-1.055	-1.405	-1.150	-.863
13	-.068	-1.208	-1.056	-.925	-1.183	-.986	-.723
14	-.394	-1.402	-1.093	-1.069	-1.308	-1.071	-.822
15	.128	-2.744	-.275	-.253	-.407	-.276	-.262
16	-1.489	-2.699	-2.102	-1.805	-2.485	-2.199	-1.521
17	-2.296	-4.048	-3.094	-2.372	-3.381	-2.879	-2.020
18	-2.923	-4.222	-3.350	-2.558	-3.660	-3.475	-2.273
19	-2.316	-3.902	-2.569	-2.384	-3.245	-2.992	-2.170
20	-2.195	-3.002	-2.041	-1.945	-2.473	-2.633	-1.833
21	-1.599	-2.049	-.942	-1.350	-1.979	-2.031	-1.577
22	-.712	-.759	-.529	-.881	-1.076	-1.268	-1.281
23	-.217	-.676	-.447	-.382	-.240	-.424	-.818
24	-.033	-.621	-.403	-.273	.038	-.424	-.530
25	1.718	1.230	.346	-3.023	-1.444	-.449	-.342
26	.566	1.130	.881	.271	*000.000	1.034	.655
27	1.085	.521	.762	.983	1.105	1.059	.644
28	.643	.333	.565	.903	.855	.650	.363
29	.959	.602	.733	.800	.767	.670	.520
30	.692	.871	.836	.880	.809	.816	-.021
31	.894	1.245	1.150	1.094	1.051	1.081	.201
32	1.506	1.121	1.069	1.075	1.022	.973	.668
33	1.349	.838	.850	.893	.872	.718	.439

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.371	.026	-1.143	-6.787	-5.148	-2.996	-2.819
2	-.522	-1.031	-1.798	-7.466	-5.928	-4.347	-3.635
3	-.732	-1.479	-2.117	-7.186	-6.081	-4.380	-3.403
4	-1.044	-1.827	-2.162	-6.109	-5.587	-4.365	-3.436
5	-1.268	-2.131	-2.206	-4.773	-4.341	-3.447	-2.654
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.216	-1.745	-1.885	-2.837	-2.543	-2.021	-1.266
11	-1.098	-1.672	*000.000	-1.790	-1.770	-1.265	-.771
12	-1.492	-1.340	-1.216	-1.150	-1.157	-.864	-.712
13	-1.056	-1.325	-1.065	-.995	-1.011	-.912	-.669
14	-1.266	-1.321	-1.023	-.868	-.819	-.704	-.499
15	-.993	-2.794	-.287	-.258	-.245	-.185	-.224
16	-2.729	-3.108	-2.370	-1.710	-1.884	-1.315	-.829
17	-3.615	-4.067	-3.094	-2.175	-2.209	-1.028	-.775
18	-3.946	-4.715	-3.648	-2.067	-1.905	-1.065	-.805
19	-4.585	-4.617	-3.499	-2.126	-1.682	-1.155	-.807
20	-3.310	-3.527	-2.656	-1.484	-1.778	-1.124	-.801
21	-2.518	-2.211	-1.538	-1.140	-1.480	-.916	-.737
22	-1.448	-.915	-.921	-.548	-.732	-.566	-.522
23	-1.133	-.753	-.365	-.256	-.422	-.421	-.450
24	-1.110	-.644	-.447	-.132	-.396	-.464	-.425
25	.804	1.221	.395	-3.445	-1.907	-.592	-.667
26	.734	1.228	1.050	.112	*000.000	.996	.511
27	.193	.725	.912	.947	1.106	1.008	.479
28	-.297	.487	.726	.999	.941	.647	.398
29	-.182	.672	.845	.814	.805	.653	.498
30	.101	.918	.885	.886	.848	.834	-.005
31	.492	1.251	1.249	1.063	1.030	1.028	.221
32	.738	1.148	1.219	1.052	1.034	.979	.723
33	.539	.862	.973	.907	.872	.680	.372

Table 4. - Continued.

(c) $C_{T,s} = 0.60$, $q_s = 21.72$

$\alpha = 30°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-.360	-.935	-1.773	-8.358	-5.800	-2.930	-2.707
2	-.838	-1.787	-2.957	-8.133	-6.475	-4.017	-2.984
3	-1.119	-2.250	-2.977	-8.471	-6.475	-4.243	-2.761
4	-1.410	-2.451	-2.862	-6.644	-5.545	-3.811	-2.170
5	-1.428	-2.447	-2.552	-5.109	-4.432	-3.186	-1.770
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.145	-1.922	-2.014	-2.623	-2.198	-1.438	-.869
11	-1.119	-1.748	.000.000	-1.591	-1.618	-1.006	-.575
12	-1.134	-1.489	-1.143	-.474	-.738	-.456	-.347
13	-1.087	-1.393	-1.048	-.850	-.782	-.547	-.488
14	-1.082	-1.508	-1.164	-.807	-.776	-.486	-.506
15	-1.014	-2.575	-.609	-.146	-.068	.032	-.159
16	-2.334	-3.129	-2.385	-1.708	-1.560	-.910	-.721
17	-3.885	-4.726	-3.894	-1.877	-1.739	-.955	-.707
18	-4.623	-4.474	-4.464	-1.702	-1.538	-.987	-.723
19	-2.850	-3.141	-3.410	-1.454	-.998	-.760	-.628
20	-3.442	-3.440	-3.156	-1.198	-.774	-.566	-.529
21	-2.659	-2.588	-1.763	-.946	-.784	-.479	-.480
22	-1.588	-1.588	-1.628	-.889	-1.040	-.710	-.555
23	-1.314	-.948	-.920	-.348	-.303	-.463	-.480
24	-1.087	-.981	-.508	-.100	-.253	-.355	-.393
25	-1.253	1.116	.020	-4.881	-2.884	-.707	-1.538
26	.811	1.289	1.019	-.071	.000.000	1.012	.021
27	.300	.885	1.019	.972	1.185	1.019	.349
28	.128	.938	.776	1.094	.994	.584	.371
29	.271	.973	.753	.881	.776	.606	.426
30	-1.118	.980	.948	.938	.819	.779	.016
31	-1.192	1.283	1.261	1.171	1.107	1.061	.178
32	.501	1.282	1.288	1.192	1.147	1.059	.588
33	-.275	.929	1.096	1.043	.968	.739	.450

$\alpha = 35°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-.312	-.891	-2.118	-3.743	-4.057	-2.919	-2.485
2	-1.040	-2.088	-2.756	-3.571	-4.255	-3.803	-2.601
3	-1.234	-2.631	-3.332	-2.802	-4.651	-4.098	-2.725
4	-1.670	-2.839	-2.665	-1.270	-3.544	-3.574	-2.060
5	-1.733	-2.792	-2.588	-1.174	-2.591	-2.789	-1.234
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.147	-1.475	-1.445	-1.036	-1.152	-1.254	-.548
11	-1.118	-1.499	.000.000	-.812	-.902	-.722	-.580
12	-1.271	-1.242	-.971	-.904	-1.191	-.656	-.388
13	-1.141	-1.385	-.906	-.909	-1.218	-.731	-.443
14	-1.023	-1.421	-.942	-.863	-.968	-.388	-.478
15	-1.244	-2.330	-.213	-.093	-.269	-.117	-.074
16	-3.114	-3.019	-1.947	-1.306	-1.078	-.871	-.680
17	-4.272	-4.591	-2.748	-1.062	-1.093	-.787	-.545
18	-5.139	-4.329	-1.684	-1.110	-1.285	-.930	-.575
19	-5.490	-5.018	-2.207	-1.246	-1.099	-.800	-.625
20	-1.318	-3.145	-1.245	-.860	-.943	-.680	-.671
21	-3.030	-3.048	-1.342	-.639	-.717	-.574	-.442
22	-2.330	-1.756	-.470	-.586	-.531	-.548	-.493
23	-1.532	-.743	-.494	-.435	-.453	-.443	-.353
24	-.888	-.357	-.378	-.350	-.375	-.373	-.350
25	.444	.413	-.144	-2.238	-1.555	-.580	-1.326
26	.981	1.275	1.084	.318	.000.000	.936	-.010
27	.474	.442	1.089	1.023	1.088	.933	.298
28	.021	.589	.718	.984	.886	.619	.455
29	.030	.589	.773	.838	.769	.596	.500
30	-.044	.918	.481	.843	.808	.795	.118
31	.429	1.277	1.244	1.117	1.058	1.050	.131
32	.347	1.143	1.148	1.081	.979	.939	.460
33	.137	.880	.976	.937	.809	.615	.389

$\alpha = 40°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-.543	-1.443	-2.841	-4.295	-5.043	-2.670	-1.659
2	-1.493	-2.880	-3.305	-3.199	-4.891	-3.246	-1.140
3	-1.682	-3.130	-3.880	-2.138	-4.651	-3.742	-1.417
4	-1.935	-3.112	-3.135	-1.043	-3.352	-2.740	-.840
5	-1.933	-2.923	-2.564	-.920	-2.419	-2.252	-.549
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.446	-2.082	-1.880	-1.140	-1.199	-.706	-.308
11	-1.229	-1.793	.000.000	-1.208	-1.207	-.400	-.342
12	-1.101	-1.132	-.744	-.904	-.831	-.359	-.301
13	-1.099	-1.126	-.710	-.790	-.586	-.389	-.421
14	-1.541	-1.308	-.740	-.675	-.452	-.426	-.377
15	-1.071	-2.597	-.116	.041	-.091	.024	-.189
16	-1.973	-2.758	-1.492	-1.060	-.813	-.843	-.632
17	-3.579	-4.210	-1.442	-1.079	-.951	-.668	-.581
18	-4.420	-3.850	-1.744	-1.135	-1.077	-.859	-.639
19	-5.190	-4.540	-1.756	-1.128	-.957	-.839	-.699
20	-3.882	-2.771	-1.075	-.883	-.841	-.588	-.558
21	-2.519	-2.182	-1.162	-.708	-.687	-.489	-.577
22	-1.643	-1.110	-.736	-.598	-.531	-.465	-.431
23	-1.447	-.704	-.531	-.532	-.527	-.509	-.456
24	-1.098	-.383	-.392	-.410	-.421	-.413	-.425
25	.598	.674	-.421	-2.631	-2.005	-.598	-1.453
26	.885	1.236	1.036	.342	.000.000	.770	-.123
27	-.059	.996	1.121	1.029	1.065	.736	.208
28	.131	.936	.771	1.001	.898	.472	.342
29	-.143	.678	.752	.839	.843	.501	.348
30	-.223	.965	.911	.953	.785	.758	-.000
31	-.619	1.258	1.251	1.148	1.012	1.007	.037
32	.462	1.143	1.177	1.093	.961	.894	.451
33	.345	.906	.921	.914	.761	.536	.211

$\alpha = 45°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-.862	-1.748	-2.998	-3.891	-4.431	-1.919	-.817
2	-1.749	-3.121	-4.072	-2.891	-4.872	-2.279	-.333
3	-1.775	-3.397	-4.103	-1.944	-4.642	-2.275	-.415
4	-2.245	-3.773	-3.445	-1.404	-3.333	-2.451	-.613
5	-1.974	-3.055	-2.545	-.981	-1.998	-1.024	-.298
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.352	-1.920	-1.654	-1.249	-1.114	-.454	-.206
11	-1.242	-1.634	.000.000	-1.131	-1.218	-.368	-.331
12	-1.045	-1.156	-.714	-.911	-.909	-.333	-.334
13	-1.327	-1.131	-.715	-.663	-.488	-.370	-.413
14	-1.537	-1.079	-.640	-.586	-.475	-.314	-.290
15	-1.414	-2.535	-.064	.059	.052	.057	-.224
16	-2.154	-2.440	-1.344	-1.037	-.882	-.678	-.434
17	-3.278	-3.882	-1.493	-1.093	-.878	-.744	-.578
18	-2.538	-3.123	-2.211	-1.053	-.883	-.792	-.671
19	-4.802	-3.574	-1.427	-.984	-.875	-.687	-.579
20	-3.587	-2.340	-1.135	-.716	-.547	-.490	-.408
21	-2.045	-2.083	-1.018	-.624	-.586	-.490	-.436
22	-1.644	-1.129	-.821	-.589	-.501	-.587	-.574
23	-1.279	-.730	-.551	-.496	-.485	-.409	-.360
24	-.776	-.395	-.341	-.434	-.352	-.352	-.340
25	.040	.342	-.930	-2.589	-2.386	-.792	-1.433
26	.980	1.268	1.070	.237	.000.000	.398	-.040
27	.482	1.082	1.181	1.029	1.040	.421	.184
28	-.102	.715	.869	1.054	.919	.428	.360
29	-.121	.695	.837	.888	.717	.515	.397
30	-.231	.990	.971	.969	.788	.735	-.015
31	.331	1.201	1.224	1.124	.978	.910	-.019
32	.217	1.190	1.227	1.124	.991	.920	.334
33	.405	.993	1.028	.930	.735	.523	.128

Table 4. - Concluded.

(d) $C_{T,S} = 0.30$, $q_s = 19.28$

$\alpha = 5°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	1.039	1.108	.457	-.848	-.361	-.101	-.020
2	.585	.524	-.057	-1.634	-1.445	-1.145	-.911
3	.299	.084	-.448	-1.882	-1.742	-1.331	-1.045
4	-.127	-.401	-.913	-2.206	-2.031	-1.713	-1.421
5	-.559	-.869	-1.267	-2.136	-2.060	-1.813	-1.573
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.849	-1.190	-1.441	-1.866	-1.496	-1.339	-1.142
11	-.849	-1.238	.000.000	-1.530	-1.605	-1.390	-1.271
12	-1.531	-1.111	-1.112	-.933	-1.356	-1.141	-.925
13	-.894	-1.184	-1.018	-1.033	-1.196	-1.038	-.750
14	-1.021	-1.097	-.906	-.974	-1.134	-.985	-.709
15	-.588	-.313	-.090	-.207	-.307	-.298	-.387
16	-2.574	-2.726	-1.727	-2.235	-2.442	-2.365	-1.770
17	-3.156	-3.368	-2.470	-2.863	-2.844	-2.435	-1.687
18	-3.734	-3.501	-2.332	-2.814	-3.137	-2.981	-1.959
19	-3.706	-3.305	-1.948	-2.586	-2.549	-2.699	-1.749
20	-3.232	-2.341	-1.327	-1.922	-1.569	-1.836	-1.372
21	-2.642	-1.576	-.720	-1.243	-.932	-1.292	-1.124
22	-1.977	-.627	-.404	-.608	-.445	-.502	-.781
23	-1.223	-.512	-.425	-.381	-.377	-.411	-.757
24	-.926	-.466	-.369	-.451	-.357	-.487	-.478
25	.111	.994	.547	.291	.844	.968	.929
26	.119	.250	.515	.635	.000.000	1.021	.940
27	-.247	-.122	.090	.452	.612	.570	.536
28	-.141	-.018	.220	.488	.433	.397	.379
29	.144	.389	.395	.397	.563	.569	.447
30	.294	.433	.623	.845	.752	.772	-.004
31	.855	1.245	.707	1.150	1.114	1.078	.891
32	.859	1.093	.710	1.081	1.044	1.013	1.020
33	.567	.790	.535	.791	.760	.681	.436

$\alpha = 10°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.804	.737	-.417	-2.373	-1.862	-1.211	-.803
2	.028	-.148	-1.059	-3.074	-2.812	-2.456	-2.130
3	-.213	-.554	-1.305	-3.100	-2.847	-2.302	-2.010
4	-.641	-1.128	-1.777	-3.623	-3.342	-2.880	-2.570
5	-.980	-1.536	-2.006	-3.280	-3.232	-2.820	-2.514
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.111	-1.620	-2.026	-2.418	-2.169	-1.968	-1.658
11	-1.076	-1.555	.000.000	-1.671	-1.921	-1.689	-1.515
12	-1.592	-1.132	-1.104	-.888	-1.278	-1.095	-.934
13	-.980	-1.172	-1.009	-.943	-1.132	-.958	-.685
14	-1.244	-1.257	-1.066	-1.013	-1.154	-1.050	-.794
15	-.800	-.471	-.242	-.281	-.343	-.284	-.363
16	-2.744	-2.727	-1.753	-2.183	-2.372	-2.137	-1.470
17	-3.870	-3.428	-2.702	-2.586	-2.910	-2.495	-1.723
18	-4.263	-3.819	-2.866	-2.813	-3.152	-2.855	-1.751
19	-4.448	-3.840	-2.845	-2.973	-3.161	-2.745	-1.665
20	-3.379	-2.584	-1.544	-2.170	-1.918	-1.807	-1.328
21	-2.771	-1.489	-.903	-1.583	-1.346	-1.227	-1.003
22	-1.864	-.835	-.581	-.731	-.490	-.702	-.750
23	-1.307	-.571	-.512	-.374	-.390	-.475	-.550
24	-1.162	-.575	-.493	-.423	-.395	-.453	-.508
25	1.018	1.207	.398	-.511	.352	.498	.504
26	.642	.920	.722	.637	.000.000	1.099	1.001
27	.009	.287	.465	.760	.924	.855	.770
28	.002	.190	.425	.675	.680	.593	.509
29	.131	.488	.556	.645	.685	.641	.600
30	.216	.631	.630	.803	.745	.754	-.073
31	.714	1.161	.740	1.030	.972	.958	.788
32	.744	1.161	.742	1.025	1.006	.993	.901
33	.573	.794	.572	.814	.780	.682	.466

$\alpha = 15°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.366	.082	-2.095	-4.542	-3.802	-3.011	-2.783
2	-.580	-1.090	-2.544	-5.359	-4.694	-3.972	-3.376
3	-.925	-1.633	-2.913	-5.460	-4.931	-3.997	-3.531
4	-1.322	-2.018	-2.890	-5.213	-4.754	-4.227	-3.780
5	-1.492	-2.273	-2.706	-4.115	-3.915	-3.545	-3.216
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.428	-2.075	-2.438	-3.061	-2.761	-2.501	-2.206
11	-1.306	-1.840	.000.000	-2.047	-2.189	-1.998	-1.734
12	-1.912	-1.354	-1.323	-1.115	-1.471	-1.270	-.953
13	-1.195	-1.382	-1.187	-1.069	-1.229	-1.078	-.805
14	-1.621	-1.392	-1.122	-1.081	-1.142	-1.005	-.946
15	-1.001	-.578	-.294	-.351	-.366	-.305	-.165
16	-3.198	-3.102	-2.248	-2.097	-2.416	-2.152	-1.277
17	-4.310	-3.916	-2.697	-2.479	-2.675	-2.402	-1.361
18	-4.743	-4.065	-3.091	-2.696	-2.718	-2.718	-1.650
19	-4.708	-3.977	-3.175	-2.723	-2.854	-2.375	-1.336
20	-3.870	-2.929	-1.773	-1.902	-1.699	-1.990	-1.361
21	-3.015	-1.581	-.919	-1.128	-.971	-1.333	-.963
22	-1.884	-.852	-.484	-.436	-.354	-.690	-.720
23	-1.545	-.705	-.584	-.453	-.406	-.449	-.654
24	-1.359	-.597	-.455	-.337	-.511	-.537	-.616
25	1.148	1.308	.087	-1.663	-.000	-.223	-.112
26	.845	1.149	.727	.488	.000.000	.973	.894
27	.220	.552	.674	.924	1.049	.943	.830
28	.038	.311	.493	.812	.707	.588	.549
29	.148	.627	.655	.850	.798	.731	.638
30	.132	.953	.745	.849	.848	.806	-.197
31	.685	1.450	.952	1.110	1.088	1.023	.531
32	.749	1.195	.874	1.060	1.028	.944	.914
33	.563	.849	.673	.858	.811	.669	.429

$\alpha = 20°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-.154	-.649	-2.621	-6.685	-5.903	-4.806	-4.481
2	-1.345	-2.171	-3.707	-7.800	-7.179	-6.339	-5.669
3	-1.711	-2.744	-4.128	-7.703	-7.178	-6.213	-5.550
4	-1.910	-2.892	-3.659	-7.080	-6.678	-5.847	-5.198
5	-2.020	-3.054	-3.500	-5.623	-5.359	-4.797	-4.307
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.969	-2.422	-2.833	-3.373	-3.282	-3.008	-2.693
11	-1.429	-2.010	.000.000	-2.079	-2.328	-2.080	-1.854
12	-2.227	-1.610	-1.512	-1.244	-1.693	-1.422	-1.059
13	-1.394	-1.488	-1.235	-1.115	-1.211	-1.013	-.878
14	-1.916	-1.541	-1.147	-1.035	-1.088	-.925	-.845
15	-1.444	-.742	-.358	-.289	-.412	-.399	-.271
16	-3.804	-3.218	-2.244	-2.231	-2.193	-2.037	-1.349
17	-5.061	-4.439	-3.318	-2.470	-2.581	-1.915	-1.355
18	-5.193	-4.594	-3.598	-2.836	-3.020	-2.472	-1.482
19	-5.327	-4.897	-3.443	-2.531	-2.747	-2.567	-1.533
20	-3.836	-3.356	-2.441	-1.943	-2.328	-1.822	-1.291
21	-3.251	-2.163	-1.093	-1.360	-1.272	-1.254	-.946
22	-2.503	-1.615	-1.039	-.764	-.679	-1.029	-.798
23	-1.911	-.936	-.520	-.407	-.332	-.399	-.713
24	-1.488	-.757	-.542	-.320	-.265	-.405	-.607
25	1.065	.999	-.754	-3.470	-2.171	-1.353	-1.191
26	1.044	1.272	.767	.331	.000.000	.754	.760
27	.473	.840	.891	.951	1.028	1.013	.853
28	.231	.555	.739	1.010	.959	.843	.655
29	.114	.670	.747	.830	.842	.767	.593
30	.122	.988	.877	.908	.824	.838	-.150
31	.843	1.366	1.216	1.113	1.091	1.034	.550
32	.796	1.319	1.193	1.142	1.076	.993	.867
33	.621	.916	.926	1.083	.865	.768	.560

$\alpha = 25°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-.367	-.694	-2.401	-3.431	-3.175	-2.952	-3.100
2	-1.584	-2.187	-3.214	-3.572	-3.804	-4.095	-4.007
3	-1.876	-2.632	-3.534	-3.423	-3.600	-4.127	-4.100
4	-2.167	-2.875	-3.214	-2.672	-3.020	-3.595	-3.601
5	-2.175	-2.941	-2.976	-1.358	-1.931	-2.511	-2.975
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.411	-1.885	-1.646	-.719	-.684	-.706	-1.030
11	-1.285	-1.694	.000.000	-.659	-.661	-.752	-.862
12	-1.099	-1.180	-.695	-.840	-.631	-.682	-.676
13	-1.229	-1.117	-.665	-.973	-.939	-.837	-.800
14	-1.946	-1.451	-.969	-.961	-1.083	-.977	-.801
15	-1.216	-.754	-.293	-.093	-.170	-.238	-.289
16	-3.539	-3.235	-1.820	-1.445	-1.446	-1.314	-1.089
17	-5.367	-4.659	-2.240	-1.738	-1.793	-1.323	-1.261
18	-6.541	-5.190	-2.981	-1.325	-1.621	-1.361	-1.323
19	-5.116	-3.579	-1.420	-1.427	-1.229	-.957	-.992
20	-4.714	-3.388	-1.240	-1.053	-1.034	-.866	-.871
21	-3.881	-2.211	-1.162	-.943	-1.018	-.963	-.955
22	-2.722	-1.503	-.767	-.533	-.547	-.804	-.749
23	-1.970	-.974	-.842	-.534	-.481	-.523	-.491
24	-1.745	-.859	-.826	-.630	-.594	-.517	-.552
25	.983	1.024	-.544	-1.699	-.776	-.440	-.561
26	1.176	1.381	.955	.598	.000.000	.861	.721
27	.578	.949	.972	1.053	1.080	1.030	.835
28	.282	.623	.745	.976	.936	.831	.697
29	.137	.702	.738	.831	.773	.729	.630
30	.030	.990	.879	.896	.796	.786	-.095
31	.607	1.448	1.368	1.185	1.126	1.109	.588
32	.765	1.278	1.180	1.123	1.023	.997	.852
33	.600	.957	1.003	.940	.808	.688	.398

$\alpha = 30°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-.920	-1.518	-3.194	-3.252	-3.208	-3.324	-3.450
2	-2.195	-2.899	-3.761	-3.933	-3.901	-3.987	-3.845
3	-2.429	-3.358	-4.011	-4.162	-3.145	-3.857	-3.768
4	-2.641	-3.416	-3.453	-1.143	-2.246	-3.661	-3.574
5	-2.130	-2.795	-2.524	-.556	-.813	-1.969	-2.115
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.630	-2.082	-1.643	-.638	-.523	-.727	-.884
11	-1.365	-1.721	.000.000	-.544	-.586	-.694	-.819
12	-.865	-.598	-.598	-.658	-.520	-.657	-.647
13	-1.217	-1.022	-.658	-.515	-.593	-.726	-.719
14	-1.820	-1.100	-.648	-.557	-.663	-.695	-.690
15	-1.353	-.872	-.370	.016	-.069	-.186	-.163
16	-3.487	-2.808	-1.456	-1.131	-1.195	-1.232	-1.228
17	-4.720	-4.041	-1.821	-1.462	-1.462	-1.187	-1.211
18	-5.139	-4.840	-1.545	-1.081	-1.362	-1.310	-1.340
19	-5.035	-3.880	-1.666	-1.235	-1.279	-1.215	-1.083
20	-3.310	-2.283	-.798	-.767	-.875	-.961	-1.023
21	-2.984	-1.476	-.479	-.908	-.815	-.946	-.918
22	-2.307	-1.332	-.760	-.627	-.611	-.797	-.743
23	-1.725	-.867	-.529	-.491	-.549	-.694	-.715
24	-1.005	-.597	-.537	-.437	-.432	-.410	-.390
25	.714	.960	-1.012	-1.622	-1.301	-1.161	-1.253
26	1.167	1.334	.935	.653	.000.000	.738	.414
27	.835	1.221	1.267	1.222	1.128	1.023	.803
28	.325	.703	.848	1.080	.971	.784	.693
29	.120	.731	.800	.985	.769	.700	.586
30	-.020	1.078	1.064	1.005	.933	.836	-.017
31	.518	1.335	1.382	1.208	1.041	.983	.517
32	.642	1.284	1.252	1.160	1.015	.937	.801
33	.626	.847	1.006	1.050	.814	.657	.427

Table 5.- Pressure coefficients for wing with propeller rotation down at tip, basic leading edge, fences on, $\delta_f = 0°$.

(a) $C_{T,s} = 0.90$, $q_s = 20.19$

$\alpha = 5°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.839	.614	-.205	.011	.721	.933	.013
2	.974	1.112	.814	.560	.002	.189	-.099
3	.885	1.113	1.055	.098	-.262	.039	-.202
4	.625	.935	1.015	-.380	-.513	-.418	-.256
5	.219	.554	.645	-.707	-.868	-.643	-.413
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-.123	-.056	-.129	-.909	-.912	-.345	-.114
11	-.261	-.450	.000,000	-.805	-.833	-.389	-.242
12	-.435	-.342	-.247	-.562	-.482	-.200	-.108
13	-.110	-.260	-.176	-.162	-.254	-.111	-.005
14	-.067	-.152	-.161	-.067	-.161	-.112	-.014
15	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
16	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
17	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
18	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
19	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
20	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
21	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
22	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
23	-.034	-.092	-.108	.055	-.040	-.054	-.042
24	-.004	.159	.147	.193	.194	.112	.005
25	-.230	-1.117	-2.547	.827	.877	1.056	.167
26	-.523	-1.874	-2.656	.801	.000,000	.613	.473
27	-.695	-1.238	-1.577	.681	.185	.024	.123
28	-.242	-.555	-.448	.322	.048	.012	.065
29	-.177	-.066	.158	.241	.068	.102	.130
30	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
31	-.102	.059	.175	.156	.147	.142	.140
32	-.014	.101	.290	.221	.145	.176	.022
33	.033	.191	.212	.223	.215	.147	.117

$\alpha = 10°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.912	.742	-.241	.290	.548	.704	-.118
2	.986	1.157	.676	-.310	-.222	-.050	-.407
3	.858	1.130	.836	-.422	-.520	-.255	-.431
4	.548	.878	.834	-.690	-.818	-.765	-.472
5	.158	.447	.484	-.960	-1.093	-.809	-.442
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-.173	-.108	-.138	-.995	-1.014	-.461	-.188
11	-.291	-.448	.000,000	-.785	-.794	-.428	-.269
12	-.433	-.347	-.428	-.599	-.464	-.264	-.158
13	-.089	-.242	-.240	-.185	-.217	-.155	-.107
14	-.060	-.163	-.242	-.075	-.142	-.168	-.081
15	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
16	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
17	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
18	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
19	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
20	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
21	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
22	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
23	-.052	-.048	-.214	.066	-.020	-.053	-.054
24	-.046	.182	-.027	.150	.217	.103	.068
25	-.078	-.627	-1.996	.644	.938	1.060	.407
26	-.451	-1.493	-2.192	.722	.000,000	.842	.516
27	-.641	-1.067	-1.431	.786	.391	.105	.318
28	-.218	-.513	-.558	.395	.174	.044	.054
29	-.090	-.058	.073	.158	.137	.126	.161
30	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
31	-.205	.091	.141	.163	.201	.138	.167
32	.004	.108	.088	.171	.179	.096	.052
33	.009	.182	.094	.242	.203	.110	.170

$\alpha = 15°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	1.007	.974	.114	-.087	.283	.575	-.282
2	.964	1.134	.921	-.771	-.688	-.278	-.579
3	.755	1.055	.993	-.756	-.933	-.489	-.660
4	.473	.811	.917	-.989	-1.194	-.892	-.702
5	.057	.319	.442	-1.206	-1.274	-.950	-.639
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-.215	-.195	-.261	-1.059	-1.097	-.525	-.405
11	-.307	-.444	.000,000	-.833	-.859	-.471	-.383
12	-.467	-.360	-.197	-.605	-.504	-.262	-.287
13	-.089	-.234	-.283	-.136	-.228	-.182	-.203
14	-.050	-.104	-.053	-.064	-.119	-.137	-.116
15	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
16	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
17	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
18	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
19	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
20	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
21	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
22	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
23	-.068	-.022	.109	.035	-.019	-.051	-.114
24	-.115	.202	.290	.136	.200	.099	.022
25	.110	-.253	-1.246	.561	.896	1.080	.256
26	-.277	-1.157	-2.014	.553	.000,000	.814	.436
27	-.552	-.900	-1.300	.812	.524	.273	.166
28	-.170	-.429	-.306	.361	.233	.153	.076
29	-.057	-.033	.033	.213	.171	.142	.096
30	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
31	-.188	.095	.170	.177	.195	.181	.130
32	-.007	.113	.339	.161	.181	.155	-.029
33	-.034	.213	.402	.234	.199	.155	.140

$\alpha = 20°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	1.049	1.046	.301	-.522	-.152	.331	-.465
2	.916	1.102	.765	-1.291	-1.107	-.529	-.833
3	.710	.958	.684	-1.367	-1.360	-.856	-.838
4	.417	.730	.645	-1.459	-1.518	-1.155	-.719
5	.022	.244	.298	-1.332	-1.451	-1.118	-.600
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-.274	-.265	-.256	-1.829	-1.212	-.576	-.366
11	-.312	-.557	.000,000	-.822	-.903	-.508	-.319
12	-.471	-.375	-.453	-.553	-.510	-.273	-.211
13	-.105	-.243	-.346	-.144	-.253	-.176	-.124
14	-.106	-.153	-.206	-.034	-.139	-.149	-.085
15	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
16	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
17	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
18	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
19	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
20	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
21	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
22	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
23	-.134	-.031	-.094	.032	-.018	-.059	-.008
24	-.150	.200	.128	.126	.173	.098	.073
25	.230	-.100	-1.125	.265	.867	1.131	.215
26	-.162	-.854	-1.617	.377	.000,000	.917	.493
27	-.477	-.792	-1.237	.739	.593	.342	.251
28	-.165	-.430	-.625	.464	.311	.115	.126
29	-.061	-.059	.076	.240	.197	.140	.136
30	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
31	-.066	.059	.033	.196	.243	.217	.325
32	.007	.078	-.005	.231	.190	.170	.029
33	-.036	.172	.214	.261	.191	.122	.238

$\alpha = 25°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	1.047	1.087	.323	-1.087	-.561	.027	-.803
2	.848	1.056	.935	-1.762	-1.393	-.902	-1.104
3	.699	.938	1.002	-1.826	-1.801	-1.195	-1.060
4	.277	.566	.680	-1.891	-1.787	-1.367	-1.111
5	-.104	.119	.255	-1.798	-1.770	-1.293	-.846
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-.323	-.341	-.255	-1.247	-1.203	-.697	-.422
11	-.371	-.611	.000,000	-.911	-1.002	-.562	-.445
12	-.521	-.386	-.341	-.562	-.509	-.323	-.183
13	-.154	-.253	-.152	-.140	-.266	-.254	-.153
14	-.148	-.131	-.061	-.029	-.156	-.197	-.098
15	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
16	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
17	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
18	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
19	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
20	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
21	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
22	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
23	-.126	-.030	-.018	-.014	-.017	-.165	-.085
24	-.103	.204	.142	.091	.129	-.002	.053
25	.350	.078	-.672	.110	.786	.995	-.244
26	-.048	-.648	-1.184	.735	.000,000	.859	.277
27	-.454	-.663	-.878	.680	.684	.366	.095
28	-.155	-.379	-.343	.437	.343	.163	.175
29	-.111	-.044	.125	.428	.224	.077	.128
30	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
31	-.057	.069	.244	.093	.207	.116	.180
32	.012	.087	.282	.222	.183	.126	.059
33	-.097	.154	.279	.277	.183	.117	.183

$\alpha = 30°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	1.024	1.110	.700	-1.681	-.936	-.196	-1.035
2	.793	1.007	.973	-2.320	-1.861	-1.051	-1.077
3	.575	.851	.938	-2.373	-2.175	-1.211	-1.215
4	.222	.452	.640	-2.360	-2.086	-1.470	-1.156
5	-.156	0.	.210	-1.927	-2.016	-1.369	-.828
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-.393	-.418	-.371	-1.376	-1.460	-.646	-.447
11	-.398	-.633	.000,000	-.909	-1.020	-.462	-.337
12	-.528	-.394	-.308	-.504	-.520	-.260	-.180
13	-.182	-.244	-.132	-.086	-.276	-.200	-.118
14	-.165	-.122	-.030	-.029	-.168	-.125	-.088
15	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
16	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
17	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
18	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
19	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
20	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
21	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
22	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
23	-.200	-.021	.032	.039	-.046	-.052	-.045
24	-.136	.210	.235	.063	.118	.037	.052
25	.457	.336	-.563	-.189	.788	.968	-.277
26	.018	-.353	-.862	.770	.000,000	1.086	.258
27	-.399	-.548	-.711	.837	.745	.548	.355
28	-.131	-.290	-.220	.511	.380	.277	.138
29	-.118	-.035	.111	.531	.208	.233	.221
30	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
31	-.053	.093	.304	.265	.225	.223	.260
32	.014	.106	.258	.306	.171	.248	.061
33	-.062	.188	.301	.258	.167	.211	.238

Table 5. - Continued.

(a) $C_{T,s} = 0.90$, $q_s = 20.19$

$\alpha = 35°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	1.052	1.126	.669	-2.189	-1.238	-.311	-1.234
2	.706	.895	.866	-2.782	-2.203	-1.466	-1.619
3	.464	.646	.787	-2.724	-2.395	-1.663	-1.590
4	.101	.277	.579	-2.683	-2.329	-1.735	-1.318
5	-.260	-.131	.155	-2.141	-2.053	-1.546	-.981
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.396	-.486	-.415	-1.372	-1.418	-.822	-.429
11	-.419	-.684	*000.000	-.839	-.986	-.525	-.374
12	-.570	-.420	-.347	-.490	-.503	-.281	-.296
13	-.232	-.269	-.158	-.161	-.276	-.182	-.225
14	-.193	-.163	-.172	-.094	-.174	-.278	-.160
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.190	-.053	-.023	-.084	-.031	-.237	-.093
24	-.163	.154	.141	.021	.084	.074	-.064
25	.497	.534	-.202	-.539	.667	.758	-.817
26	.113	-.094	-.668	.763	*000.000	1.091	.168
27	-.376	-.415	-.507	.864	.807	.512	.153
28	-.165	-.299	-.273	.549	.425	.227	.178
29	-.235	-.049	.075	.322	.244	.146	.134
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.111	.044	.212	.257	.230	.146	.272
32	.005	.066	.220	.295	.185	.145	.023
33	-.090	.128	.222	.244	.178	.151	.285

$\alpha = 40°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.975	1.125	.714	-2.746	-1.704	-.522	-1.856
2	.596	.777	.791	-3.547	-2.645	-1.525	-1.938
3	.376	.530	.714	-3.438	-2.908	-1.757	-1.769
4	-.039	.095	.448	-3.006	-2.671	-1.893	-1.506
5	-.363	-.303	.031	-2.429	-2.332	-1.667	-1.183
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.506	-.580	-.504	-1.396	-1.547	-.695	-.547
11	-.475	-.721	*000.000	-.777	-1.032	-.558	-.429
12	-.855	-.449	-.396	-.491	-.527	-.370	-.341
13	-.288	-.314	-.187	-.172	-.254	-.286	-.275
14	-.267	-.200	-.153	-.105	-.137	-.199	-.190
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.319	-.067	-.053	-.120	-.091	-.149	-.112
24	-.271	.160	.163	-.030	-.003	.221	-.001
25	.585	.703	.078	-.866	.572	1.024	-.978
26	.143	.123	-.093	.711	*000.000	1.057	-.112
27	-.364	-.282	-.256	.894	.858	.811	.099
28	-.176	-.227	-.207	.617	.460	.199	.159
29	-.193	-.041	.053	.330	.237	.372	.231
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.147	.054	.194	.142	.222	.454	.235
32	-.019	.063	.225	.226	.171	.482	-.001
33	-.095	.126	.241	.164	.136	.100	.181

$\alpha = 45°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	1.051	1.140	.859	-3.303	-2.134	-1.073	-2.321
2	.548	.714	.666	-4.001	-3.035	-2.359	-2.526
3	.276	.381	.508	-3.944	-3.216	-2.566	-1.949
4	-.115	-.056	.321	-3.600	-3.108	-2.425	-1.863
5	-.469	-.481	-.119	-2.667	-2.576	-1.972	-1.300
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.542	-.651	-.607	-1.450	-1.609	-.908	-.717
11	-.449	-.746	*000.000	-.744	-1.011	-.565	-.414
12	-.747	-.503	-.458	-.455	-.479	-.454	-.384
13	-.359	-.343	-.247	-.185	-.236	-.279	-.235
14	-.376	-.234	-.166	-.175	-.167	-.293	-.340
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.394	-.080	-.067	-.057	-.087	-.257	-.137
24	-.285	.158	.168	-.041	-.010	-.086	-.078
25	.660	.823	.344	-1.117	.422	.436	-1.524
26	.183	.316	.290	.689	*000.000	.849	-.313
27	-.346	-.210	-.201	.877	.899	.540	.129
28	-.181	-.179	-.154	.676	.501	.221	.155
29	-.144	-.022	.034	.329	.225	.161	.109
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.170	.078	.217	.239	.239	.176	.209
32	0.	.069	.249	.238	.199	.229	-.110
33	-.089	.133	.242	.250	.161	.034	.137

$\alpha = 50°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.977	1.076	.748	-3.744	-2.534	-1.400	-2.633
2	.468	.524	.485	-4.204	-3.269	-2.422	-2.162
3	.140	.223	.298	-4.166	-3.617	-2.505	-2.072
4	-.212	-.185	-.077	-3.573	-3.118	-2.368	-1.813
5	-.526	-.604	-.395	-2.873	-2.756	-2.131	-1.423
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.573	-.756	-.705	-1.408	-1.654	-.826	-.586
11	-.555	-.861	*000.000	-.780	-1.099	-.632	-.289
12	-.806	-.568	-.531	-.496	-.498	-.400	-.129
13	-.488	-.424	-.336	-.224	-.218	-.270	-.285
14	-.474	-.265	-.271	-.165	-.158	-.279	-.134
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.494	-.121	-.134	-.087	-.097	-.157	-.089
24	-.293	.123	.093	-.027	-.020	-.031	-.121
25	.688	.990	.609	-1.393	.304	-.003	-1.966
26	.274	.470	.404	.640	*000.000	.740	-.454
27	-.324	-.143	-.136	.707	.958	.599	.183
28	-.139	-.147	-.175	.605	.507	.247	.183
29	-.127	-.019	.057	.407	.280	.274	.151
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.152	.076	.171	.257	.246	.253	.266
32	.036	.066	.204	.272	.191	.242	-.065
33	-.075	.112	.178	.271	.132	.071	.417

$\alpha = 55°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.901	1.020	.721	-3.996	-2.997	-1.340	-1.120
2	.311	.348	.300	-4.535	-3.783	-1.388	-.744
3	.067	.051	.039	-4.760	-4.107	-1.484	-.249
4	-.338	-.348	-.177	-4.061	-3.747	-1.046	-.393
5	-.596	-.757	-.583	-2.996	-3.016	-.398	-.412
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.660	-.885	-.922	-1.510	-1.866	-.280	-.231
11	-.660	-.978	*000.000	-.846	-1.193	-.155	-.368
12	-.874	-.654	-.532	-.487	-.547	-.159	-.295
13	-.539	-.479	-.381	-.270	-.345	-.206	-.534
14	-.558	-.338	-.245	-.183	-.239	-.062	-.500
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.570	-.226	-.131	-.166	-.227	-.224	-.437
24	-.387	.069	.134	-.057	-.105	-.220	-.444
25	.696	1.013	.752	-1.666	-.014	.007	-.866
26	.318	.629	.649	.662	*000.000	.852	-.279
27	-.283	-.052	.003	.975	.479	.267	.040
28	-.142	-.130	-.129	.682	.522	.206	.173
29	-.123	-.042	.064	.416	.262	.226	.208
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.160	.051	.236	.279	.234	.219	.200
32	.026	.036	.233	.280	.175	.188	-.080
33	-.123	.076	.219	.280	.123	.195	-.072

$\alpha = 60°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.871	.976	.712	-4.291	-3.344	-.872	-.594
2	.237	.224	.159	-4.772	-3.987	-1.154	-.340
3	-.075	-.062	-.077	-4.714	-4.175	-.858	-.209
4	-.443	-.512	-.448	-4.240	-3.803	-.830	-.258
5	-.754	-.876	-.814	-3.103	-3.173	-.269	-.152
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.820	-.976	-.999	-1.470	-1.832	-.129	-.292
11	-.774	-1.045	*000.000	-.800	-.945	-.178	-.211
12	-.941	-.729	-.581	-.542	-.549	-.212	-.365
13	-.670	-.536	-.377	-.278	-.280	-.063	-.182
14	-.622	-.383	-.301	-.180	-.190	-.147	-.302
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.696	-.253	-.167	-.148	-.246	-.269	-.401
24	-.381	.062	.092	-.145	-.207	-.167	-.155
25	.683	1.138	.995	-1.867	-.162	-.106	-.423
26	.246	.674	.743	.604	*000.000	.104	-.080
27	-.344	.009	.137	.656	1.000	.141	.241
28	-.164	-.121	-.096	.702	.530	.161	-.030
29	-.116	-.031	.075	.398	.293	.174	.112
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.161	.053	.210	.271	.224	.237	.218
32	.027	.042	.228	.307	.163	.178	-.167
33	-.146	.072	.211	.217	.140	.064	.115

Table 5. - Continued.

(a) $C_{T,S} = 0.90$, $q_s = 20.19$

$\alpha = 65°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.825	.441	.737	-3.504	-1.986	-.928	-.833
2	.155	.231	.118	-3.586	-2.552	-1.007	-.691
3	-.144	-.206	-.244	-4.385	-3.336	-.600	-.460
4	-.573	-.642	-.566	-4.150	-3.569	-.170	-.181
5	-.894	-1.002	-.837	-2.982	-2.735	-.177	-.293
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.888	-1.012	-.983	-1.407	-1.372	-.190	-.256
11	-.825	-1.067	*000.000	-.665	-.728	-.136	-.143
12	-.933	-.773	-.610	-.576	-.525	-.087	-.286
13	-.739	-.604	-.426	-.215	-.315	-.099	-.119
14	-.765	-.454	-.323	-.211	-.244	-.149	-.136
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.743	-.292	-.201	-.206	-.213	-.184	-.343
24	-.380	.020	.090	-.101	-.180	-.147	-.161
25	.706	1.087	.819	-1.678	-.230	-.444	-.488
26	.278	.763	.750	.545	*000.000	.065	-.059
27	-.320	.054	.146	.584	.897	.179	.029
28	-.196	-.129	-.109	.659	.541	.160	.251
29	-.150	-.036	.054	.417	.260	.209	.243
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.201	.041	.204	.297	.214	.270	.288
32	0.	.029	.191	.293	.156	.196	-.160
33	-.215	.057	.196	.249	.065	.151	.210

$\alpha = 70°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.746	.830	.463	-3.816	-2.901	-.326	-.354
2	.024	.035	-.116	-4.788	-3.737	-.354	-.234
3	-.210	-.324	-.339	-4.606	-3.696	-.235	-.041
4	-.677	-.706	-.663	-3.235	-3.166	-.301	-.214
5	-1.019	-1.103	-.984	-3.009	-2.659	-.204	-.066
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.984	-1.090	-1.046	-1.375	-1.317	-.117	-.091
11	-.916	-1.119	*000.000	-.651	-.834	-.152	-.145
12	-.736	-.720	-.472	-.548	-.276	-.091	-.063
13	-.830	-.632	-.420	-.314	-.338	-.207	-.013
14	-.800	-.433	-.310	-.325	-.157	-.219	-.149
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.740	-.264	-.191	-.186	-.174	-.192	-.051
24	-.305	.017	.093	-.156	-.119	-.173	-.043
25	.546	1.169	.965	-1.921	-.335	-.641	-.556
26	.227	.760	.821	.518	*000.000	-.114	-.029
27	-.336	.122	.270	.962	.954	-.126	.135
28	-.211	-.092	-.046	.837	.519	.147	.245
29	-.160	-.023	.073	.366	.224	.148	.117
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.212	.051	.207	.245	.203	.110	.252
32	.005	.056	.231	.318	.178	.166	.028
33	-.187	.075	.213	.258	.047	-.005	.205

$\alpha = 75°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.554	.767	.377	-4.162	-2.840	-.293	-.327
2	-.055	-.068	-.202	-4.710	-3.650	-.224	-.163
3	-.503	-.422	-.508	-4.552	-3.800	-.334	-.297
4	-.832	-.829	-.659	-3.713	-3.221	-.056	.006
5	-1.097	-1.133	-.891	-2.539	-2.235	-.076	-.154
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.156	-1.180	-1.118	-1.329	-1.100	-.137	-.296
11	-1.045	-1.175	*000.000	-.617	-.715	-.133	-.161
12	-.917	-.837	-.590	-.516	-.414	-.110	-.169
13	-.818	-.618	-.404	-.232	-.234	-.031	-.145
14	-.760	-.475	-.312	-.250	-.169	-.075	-.240
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.720	-.280	-.217	-.259	-.154	-.097	-.251
24	-.328	-.011	.098	-.278	-.023	-.094	-.180
25	.535	1.132	.924	-1.826	-.379	-.265	-.461
26	.187	.805	.805	.569	*000.000	.046	-.121
27	-.368	.105	.229	.569	.883	-.015	-.012
28	-.247	-.083	-.049	.659	.483	.063	-.007
29	-.238	-.037	.113	.404	.231	.162	-.014
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.154	.054	.215	.250	.238	.242	.119
32	0.	.067	.206	.256	.184	.156	-.068
33	-.229	.092	.229	.216	.184	.089	.058

$\alpha = 80°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.479	.690	.281	-3.946	-2.859	.014	-.205
2	-.222	-.111	-.119	-3.227	-3.146	-.065	-.253
3	-.547	-.505	-.513	-4.338	-3.611	-.087	-.159
4	-.996	-.904	-.650	-3.582	-2.955	.008	-.086
5	-1.223	-1.185	-.942	-2.661	-2.424	-.028	-.147
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.248	-1.201	-1.103	-1.252	-1.154	-.024	-.188
11	-1.187	-1.286	*000.000	-.642	-.749	-.036	-.203
12	-.977	-.851	-.581	-.521	-.385	-.051	-.127
13	-.907	-.667	-.403	-.294	-.255	-.019	-.127
14	-.767	-.451	-.288	-.263	-.200	-.061	-.155
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.639	-.256	-.162	-.174	-.107	-.090	-.140
24	-.338	-.025	.073	-.239	-.104	-.027	-.156
25	.553	1.127	.809	-1.611	-.420	-.253	-.343
26	.205	.799	.710	.497	*000.000	.004	-.118
27	-.341	.111	.265	.580	.880	.116	-.047
28	-.284	-.082	-.008	.622	.449	.100	.076
29	-.231	-.004	.114	.599	.241	.224	.089
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.253	.070	.244	.269	.189	.237	.184
32	-.018	.072	.248	.291	.142	.171	-.056
33	-.136	.111	.216	.188	.142	.088	.093

Table 5.- Continued.

(b) $C_{T,s} = 0.80$, $q_s = 19.98$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.055	.787	.020	.492	.632	.895	.136
2	1.071	1.126	.845	.441	-.034	.319	-.144
3	.979	1.137	.941	.044	-.490	-.080	-.193
4	.625	.849	.896	-.291	-.733	-.467	-.459
5	.190	.399	.451	-.870	-1.027	-.685	-.572
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.212	-.170	-.326	-1.063	-1.073	-.420	-.233
11	-.343	-.515	*000.000	-.888	-.898	-.465	-.417
12	-.478	-.360	-.333	-.508	-.516	-.282	-.289
13	-.112	-.262	-.299	-.209	-.276	-.172	-.109
14	-.063	-.137	-.211	-.075	-.167	-.111	-.186
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.020	-.039	-.041	.076	-.043	.011	-.079
24	.058	.205	.128	.130	.203	.174	.004
25	-.029	-.611	-1.651	.766	1.023	1.123	.500
26	-.592	-1.477	-2.073	.711	*000.000	.640	.461
27	-.727	-1.051	-1.328	.601	.218	.048	.061
28	-.328	-.545	-.484	.267	.025	.074	.011
29	-.061	-.064	-.011	.037	.110	.101	.145
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.125	.105	.115	.130	.184	.200	.116
32	.014	.136	.189	.152	.163	.177	-.078
33	-.016	.200	.217	.164	.186	.199	.101

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.081	.942	.390	.255	.325	.654	.043
2	1.032	1.156	.835	-.485	-.477	-.134	-.462
3	.849	1.023	1.035	-.381	-.657	-.377	-.571
4	.504	.720	.797	-.828	-1.045	-.744	-.768
5	.067	.272	.486	-1.027	-1.172	-.922	-.707
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.297	-.307	-.254	-1.093	-1.245	-.695	-.477
11	-.382	-.582	*000.000	-.844	-.942	-.662	-.458
12	-.498	-.391	-.396	-.530	-.537	-.374	-.315
13	-.131	-.274	-.262	-.133	-.271	-.262	-.200
14	-.063	-.136	-.096	-.011	-.156	-.224	-.132
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.037	-.060	.049	.064	.010	-.110	-.041
24	-.056	.239	.321	.169	.115	.091	.061
25	.254	-.080	-.760	.527	.969	1.059	.539
26	-.242	-.959	-1.414	.640	*000.000	.858	.633
27	-.616	-.858	-.849	.787	.443	.188	.297
28	-.270	-.471	-.389	.464	.155	.048	.082
29	-.079	-.054	.041	.137	.124	.084	.170
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.115	.089	.290	.242	.202	.156	.160
32	-.005	.104	.178	.215	.142	.169	.015
33	.016	.187	.195	.260	.170	.095	.163

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.106	1.130	.647	-.455	-.079	.412	-.217
2	.871	1.048	.668	-1.194	-1.113	-.533	-.970
3	.680	.870	.658	-1.365	-1.391	-.910	-1.024
4	.318	.561	.727	-1.394	-1.611	-1.124	-.944
5	-.140	.123	.134	-1.431	-1.681	-1.392	-1.005
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.380	-.381	-.482	-1.277	-1.418	-.798	-.635
11	-.415	-.611	*000.000	-.855	-1.005	-.703	-.558
12	-.602	-.388	-.231	-.557	-.533	-.368	-.381
13	-.149	-.224	-.071	-.114	-.260	-.257	-.305
14	-.100	-.102	-.089	-.002	-.143	-.181	-.252
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.075	.007	-.032	.034	.027	-.053	-.157
24	-.103	.257	.300	.110	.126	.105	.006
25	.473	.155	-.716	.388	.940	1.091	.375
26	-.099	-.619	-.851	.474	*000.000	.963	.477
27	-.549	-.684	-.766	.789	.654	.434	.205
28	-.250	-.357	-.192	.621	.304	.140	.043
29	-.053	-.012	.156	.251	.194	.144	.133
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.059	.107	.351	.222	.233	.174	.145
32	-.022	.114	.177	.264	.177	.155	-.052
33	-.045	.222	.334	.272	.158	.185	.130

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.193	1.196	.645	-1.414	-.919	-.122	-.708
2	.846	.965	.748	-2.069	-1.840	-1.153	-1.136
3	.602	.747	.712	-2.082	-2.121	-1.300	-1.288
4	.184	.337	.429	-2.136	-2.159	-1.427	-1.227
5	-.231	-.120	-.003	-1.867	-2.038	-1.561	-1.285
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.424	-.494	-.469	-1.362	-1.508	-.832	-.788
11	-.462	-.728	*000.000	-.955	-1.133	-.715	-.746
12	-.617	-.447	-.392	-.609	-.561	-.473	-.502
13	-.172	-.295	-.247	-.160	-.239	-.280	-.294
14	-.128	-.140	-.138	-.095	-.124	-.281	-.196
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.134	-.020	-.026	-.010	-.027	-.155	-.217
24	-.124	.220	.178	.033	.053	.093	.081
25	.623	.388	-.302	-.090	.798	.873	.212
26	.068	-.230	-.528	.676	*000.000	.999	.536
27	-.376	-.477	-.490	.708	.723	.487	.185
28	-.227	-.315	-.217	.694	.408	.305	.206
29	-.033	-.024	.128	.274	.215	.231	.131
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.024	.064	.233	.199	.223	.224	.238
32	-.002	.096	.260	.263	.183	.214	-.122
33	.009	.169	.236	.202	.147	.166	.032

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.170	1.186	.718	-2.582	-1.534	-.612	-1.244
2	.691	.787	.582	-3.141	-2.596	-1.663	-1.646
3	.422	.515	.369	-3.115	-2.885	-1.955	-1.819
4	.007	.084	.121	-2.818	-2.614	-1.968	-1.647
5	-.359	-.351	-.152	-2.168	-2.298	-1.875	-1.428
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.497	-.665	-.622	-1.563	-1.688	-1.116	-.785
11	-.474	-.754	*000.000	-.857	-1.085	-.804	-.724
12	-.664	-.478	-.444	-.601	-.523	-.422	-.413
13	-.209	-.292	-.255	-.187	-.200	-.397	-.402
14	-.193	-.161	-.194	-.169	-.105	-.230	-.274
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.200	-.039	-.012	-.125	-.055	-.234	-.215
24	-.178	.196	.199	-.008	-.014	-.026	-.051
25	.826	.729	.278	-.749	.704	.874	-.237
26	.238	.074	.009	.612	*000.000	1.057	.384
27	-.301	-.318	-.279	.662	.868	.580	.219
28	-.190	-.246	-.173	.582	.459	.299	.035
29	-.040	-.017	.107	.301	.260	.139	.126
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.045	.082	.171	.098	.224	.165	-.122
32	-.007	.095	.235	.236	.186	.096	-.129
33	-.022	.155	.238	.258	.160	.089	.143

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.109	1.119	.689	-2.993	-2.163	-.887	-1.688
2	.694	.584	.526	-3.784	-3.054	-1.737	-1.879
3	.212	.225	.319	-3.983	-3.540	-1.839	-1.857
4	-.235	-.249	-.023	-3.398	-3.032	-1.999	-1.860
5	-.552	-.639	-.351	-2.776	-2.754	-1.835	-1.447
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.574	-.738	-.618	-1.506	-1.717	-.829	-.669
11	-.520	-.829	*000.000	-.803	-1.128	-.693	-.565
12	-.765	-.513	-.452	-.593	-.488	-.452	-.308
13	-.279	-.321	-.298	-.252	-.222	-.264	-.269
14	-.275	-.195	-.182	-.187	-.170	-.285	-.248
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.298	-.050	-.056	-.105	-.102	-.160	-.192
24	-.254	.182	.180	-.025	-.089	.008	-.075
25	.941	.948	.548	-1.141	.430	.865	-.663
26	.432	.466	.477	.685	*000.000	1.147	.111
27	-.207	-.105	.003	.692	.998	.965	.182
28	-.132	-.132	-.048	.856	.546	.351	.184
29	-.043	.019	.148	.350	.291	.284	.175
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.040	.108	.299	.268	.267	.420	.266
32	0.	.102	.266	.285	.187	.179	-.001
33	-.014	.153	.263	.189	.140	.175	.168

Table 5.- Continued.

(b) $C_{T,s} = 0.80$, $q_s = 19.98$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.075	1.043	.618	-4.205	-3.207	-1.573	-2.232
2	.320	.314	.131	-4.547	-3.743	-2.443	-2.156
3	.017	-.045	-.032	-4.465	-4.050	-2.542	-2.138
4	-.377	-.433	-.359	-3.738	-3.543	-2.448	-1.713
5	-.710	-.849	-.724	-3.141	-3.034	-2.137	-1.432
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.699	-.880	-.788	-1.624	-1.813	-1.063	-.700
11	-.614	-.901	*000.000	-.815	-1.146	-.757	-.534
12	-.849	-.988	-.935	-.608	-.500	-.426	-.293
13	-.383	-.342	-.309	-.233	-.229	-.320	-.188
14	-.403	-.229	-.219	-.196	-.208	-.319	-.133
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.459	-.083	-.089	-.147	-.222	-.211	-.239
24	-.342	.147	.158	-.046	-.139	-.190	-.050
25	1.006	1.113	.710	-1.473	.157	.378	-1.166
26	.554	.702	.751	.634	*000.000	1.047	-.137
27	-.104	.100	.212	.646	1.001	.655	.200
28	-.110	-.058	-.023	.916	.613	.408	.219
29	-.065	-.047	.140	.444	.326	.190	.347
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.047	.112	.261	.301	.276	.164	.307
32	.002	.108	.258	.312	.203	.046	.083
33	-.042	.163	.271	.364	.121	.150	.191

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.847	.853	.347	-4.587	-3.432	-1.673	-2.488
2	.066	-.003	-.143	-5.387	-4.458	-2.772	-2.436
3	-.173	-.364	-.348	-5.273	-4.600	-3.019	-2.520
4	-.612	-.830	-.695	-4.516	-3.793	-2.901	-1.938
5	-.900	-1.148	-.926	-3.349	-3.368	-2.457	-1.700
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.856	-1.105	-1.041	-1.710	-1.958	-1.049	-.698
11	-.739	-1.088	*000.000	-.848	-1.201	-.751	-.559
12	-.944	-.631	-.566	-.542	-.488	-.419	-.283
13	-.482	-.412	-.354	-.271	-.276	-.289	-.343
14	-.516	-.263	-.223	-.218	-.314	-.320	-.188
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.622	-.100	-.106	-.141	-.221	-.223	-.110
24	-.459	.103	.158	-.104	-.168	-.077	-.210
25	1.100	1.255	.943	-2.134	-.272	.295	-1.414
26	.571	.910	.877	.534	*000.000	.995	-.133
27	-.083	.216	.384	1.047	1.044	.834	-.026
28	-.136	.005	.117	.844	.698	.352	.238
29	-.054	.048	.176	.421	.334	.275	.188
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.127	.119	.242	.342	.307	.287	.156
32	-.022	.090	.251	.338	.235	.235	.034
33	-.122	.125	.266	.322	.137	.145	.241

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.829	.862	.187	-4.165	-2.967	-1.861	-2.877
2	.005	-.262	-.460	-5.069	-3.265	-2.991	-2.708
3	-.385	-.640	-.723	-4.635	-3.247	-2.945	-2.379
4	-.828	-1.082	-.970	-3.844	-3.069	-2.912	-1.999
5	-1.015	-1.272	-.989	-1.287	-1.957	-2.144	-1.256
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.903	-1.131	-1.063	-.921	-.813	-1.066	-.704
11	-.751	-1.090	*000.000	-.755	-.741	-.621	-.456
12	-.951	-.691	-.630	-.588	-.489	-.320	-.255
13	-.582	-.449	-.399	-.492	-.455	-.311	-.144
14	-.620	-.348	-.307	-.310	-.417	-.303	-.222
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.738	-.148	-.173	-.355	-.317	-.250	-.230
24	-.523	.077	.101	-.186	-.267	-.209	-.190
25	1.119	1.256	.899	-1.709	-.392	.189	-2.058
26	.643	.956	.932	.618	*000.000	.763	-.418
27	-.005	.344	.503	.720	1.171	.604	.142
28	-.099	.078	.128	.798	.718	.335	.219
29	-.048	.062	.165	.433	.340	.259	.223
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.125	.130	.270	.288	.285	.265	.304
32	.027	.104	.272	.332	.213	.274	.063
33	-.089	.107	.222	.147	.122	.191	.251

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.660	.468	-.132	-3.056	-2.796	-1.645	-1.771
2	-.255	-.529	-.735	-3.249	-3.335	-3.075	-1.973
3	-.564	-.838	-.908	-2.934	-3.334	-2.248	-.486
4	-.974	-1.282	-1.184	-2.076	-2.501	-2.531	-.870
5	-1.225	-1.486	-1.149	-.760	-2.223	-1.090	-.403
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.077	-1.284	-1.172	-.671	-.775	-.347	-.398
11	-.913	-1.201	*000.000	-.777	-.805	-.522	-.421
12	-.939	-.717	-.575	-.617	-.524	-.349	-.192
13	-.884	-.535	-.510	-.543	-.616	-.234	-.233
14	-.817	-.409	-.419	-.422	-.438	-.224	-.363
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.832	-.225	-.270	-.409	-.395	-.203	-.264
24	-.458	.041	.038	-.241	-.345	-.271	-.261
25	1.105	1.229	.760	-1.579	-.416	-.151	-1.077
26	.676	1.037	1.007	.632	*000.000	.645	-.096
27	0.	.390	.572	.653	1.086	.355	.060
28	-.099	.132	.167	.745	.684	.221	.190
29	-.102	.090	.195	.435	.336	.243	.174
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.156	.146	.292	.304	.303	.278	.271
32	-.016	.121	.261	.310	.204	.205	-.010
33	-.136	.109	.207	.275	.087	.093	.151

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.545	.172	-.526	-2.957	-3.409	-1.200	-.886
2	-.449	-.827	-1.102	-2.722	-3.438	-1.126	-.429
3	-.752	-1.024	-1.041	-1.801	-2.642	-1.452	-.304
4	-1.140	-1.516	-1.401	-1.241	-2.608	-1.390	-.631
5	-1.463	-1.751	-1.556	-.830	-1.773	-.481	-.378
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.081	-1.267	-1.177	-.673	-.679	-.255	-.311
11	-.952	-1.232	*000.000	-.694	-.784	-.308	-.338
12	-.929	-.780	-.687	-.624	-.370	-.255	-.235
13	-.629	-.591	-.515	-.444	-.303	-.249	-.265
14	-.881	-.456	-.410	-.485	-.410	-.148	-.343
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.892	-.241	-.278	-.404	-.335	-.334	-.338
24	-.444	-.005	.013	-.165	-.303	-.194	-.310
25	1.055	1.196	.708	-1.581	-.478	-.300	-1.090
26	.670	1.093	1.071	.578	*000.000	.180	-.070
27	.053	.518	.648	.610	1.046	.087	.107
28	-.074	.146	.234	.848	.693	.205	.239
29	-.100	.095	.184	.433	.321	.240	.199
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.178	.132	.253	.281	.217	.242	.231
32	0.	.108	.233	.271	.217	.209	.019
33	-.172	.105	.187	.264	.164	.148	.193

Table 5.- Continued.

(b) $C_{T,S} = 0.80$, $q_s = 19.98$

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.404	-.002	-.685	-2.988	-3.325	-1.075	-.761
2	-.867	-1.054	-1.403	-2.763	-3.549	-.994	-.525
3	-1.002	-1.481	-1.549	-1.787	-3.516	-.474	-.393
4	-1.314	-1.723	-1.594	-1.280	-2.901	-.223	-.294
5	-1.589	-1.945	-1.728	-1.049	-1.716	-.271	-.296
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.291	-1.435	-1.159	-.734	-.848	-.247	-.343
11	-1.082	-1.215	*000.000	-.680	-.546	-.304	-.329
12	-1.023	-.900	-.683	-.655	-.361	-.290	-.426
13	-1.015	-.726	-.549	-.439	-.471	-.218	-.329
14	-.979	-.523	-.487	-.384	-.305	-.211	-.413
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.907	-.308	-.331	-.311	-.437	-.269	-.489
24	-.428	-.053	-.051	-.300	-.318	-.320	-.420
25	1.058	1.165	.648	-1.621	-.593	-.372	-.745
26	.729	1.176	1.125	.660	*000.000	.052	-.233
27	-.007	.589	.705	1.045	1.031	.054	.075
28	-.084	.211	.274	.832	.572	.153	.163
29	-.133	.104	.215	.486	.331	.202	.223
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.175	.143	.281	.293	.306	.252	.230
32	.015	.102	.230	.281	.213	.176	-.013
33	-.190	.094	.216	.138	.062	.086	.141

$\alpha = 65°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.270	-.217	-.827	-2.767	-3.308	-.433	-.398
2	-.475	-1.459	-1.735	-2.870	-3.618	-.432	-.345
3	-1.297	-1.743	-1.845	-2.098	-3.740	-.212	-.311
4	-1.646	-2.004	-1.852	-1.479	-2.005	-.229	-.342
5	-1.881	-2.121	-1.851	-.798	-1.068	-.188	-.291
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.504	-1.602	-1.369	-.724	-.766	-.204	-.286
11	-1.281	-1.370	*000.000	-.671	-.487	-.131	-.327
12	-1.157	-.985	-.693	-.719	-.487	-.119	-.300
13	-1.069	-.712	-.481	-.399	-.411	-.222	-.343
14	-1.052	-.527	-.433	-.365	-.355	-.264	-.384
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.828	-.353	-.312	-.351	-.283	-.202	-.323
24	-.378	-.066	-.027	-.239	-.229	-.249	-.310
25	1.022	1.052	.542	-1.494	-.769	-.471	-.869
26	.668	1.136	1.100	.601	*000.000	-.014	-.095
27	-.046	.067	.907	1.083	1.094	-.115	.023
28	-.168	.236	.323	.790	.614	.169	.139
29	-.234	.108	.219	.454	.317	.272	.193
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.242	.158	.285	.286	.303	.295	.206
32	-.030	.134	.267	.319	.271	.256	-.040
33	-.189	.105	.200	.265	.116	.128	.148

$\alpha = 70°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.147	-.498	-1.238	-3.142	-3.238	-.550	-.253
2	-1.154	-1.831	-1.842	-2.326	-2.696	-.377	-.285
3	-1.566	-2.008	-2.044	-1.615	-3.472	-.349	-.255
4	-1.937	-2.113	-1.926	-1.121	-1.360	-.284	-.253
5	-2.221	-2.401	-2.087	-.900	-1.037	-.293	-.233
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.678	-1.658	-1.357	-.723	-.560	-.371	-.421
11	-1.399	-1.429	*000.000	-.577	-.806	-.243	-.220
12	-1.037	-1.007	-.648	-.678	-.498	-.199	-.274
13	-.975	-.703	-.429	-.319	-.304	-.307	-.331
14	-.953	-.576	-.451	-.363	-.327	-.367	-.336
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.685	-.397	-.296	-.338	-.310	-.319	-.259
24	-.332	-.053	-.037	-.337	-.279	-.391	-.268
25	.922	.946	.368	-1.384	-.865	-.434	-.581
26	.679	1.229	1.130	.664	*000.000	-.300	-.134
27	-.049	.717	.834	1.046	.725	-.167	.015
28	-.152	.293	.382	.925	.567	.152	.222
29	-.190	.161	.244	.524	.284	.164	.197
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.135	.183	.303	.349	.308	.220	.250
32	-.014	.128	.262	.318	.192	.167	.036
33	-.086	.123	.211	.300	.119	.064	.202

$\alpha = 75°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.218	-.613	-1.117	-2.619	-2.279	-.581	-.392
2	-1.397	-1.881	-1.915	-2.675	-2.052	-.453	-.252
3	-1.770	-2.162	-2.013	-1.817	-1.712	-.390	-.335
4	-2.324	-2.452	-2.084	-.879	-.919	-.319	-.343
5	-2.405	-2.448	-1.963	-.472	-.770	-.278	-.264
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-2.084	-1.885	-1.350	-.498	-.718	-.246	-.384
11	-1.462	-1.444	*000.000	-.473	-.626	-.186	-.336
12	-.942	-1.017	-.641	-.664	-.592	-.274	-.252
13	-1.069	-.771	-.509	-.345	-.288	-.296	-.291
14	-.933	-.582	-.427	-.302	-.308	-.357	-.329
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.676	-.376	-.306	-.305	-.290	-.271	-.326
24	-.417	-.067	-.162	-.322	-.319	-.287	-.248
25	.910	.869	.351	-1.513	-.898	-.386	-.463
26	.733	1.140	1.125	.599	*000.000	-.385	-.161
27	-.036	.681	.805	.623	.542	-.327	-.008
28	-.194	.284	.379	.817	.394	.190	.174
29	-.182	.091	.212	.435	.209	.145	.172
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.182	.181	.246	.226	.224	.167	.161
32	.024	.112	.228	.256	.168	.161	.016
33	-.049	.149	.176	.244	.123	.083	.145

Table 5.- Continued.

(c) $C_{T,S} = 0.60$, $q_s = 22.18$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.100	1.070	.523	-.003	.850	.927	.376
2	1.017	1.156	.868	.507	.137	.206	-.088
3	.862	1.035	.854	.161	-.195	-.061	-.308
4	.428	.619	.533	-.501	-.632	-.444	-.401
5	.020	.171	.157	-.811	-.956	-.682	-.590
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.370	-.385	-.462	-1.126	-1.124	-.617	-.506
11	-.491	-.593	*000.000	-.853	-.912	-.695	-.650
12	-.670	-.458	-.363	-.601	-.598	-.462	-.440
13	-.182	-.278	-.269	-.209	-.324	-.274	-.280
14	-.100	-.174	-.184	-.088	-.190	-.204	-.238
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.031	-.030	-.048	.016	-.030	-.073	-.121
24	.108	.218	.116	.131	.132	.098	-.003
25	.135	-.238	-.202	.563	.955	1.035	.520
26	-.343	-.994	-1.106	.526	*000.000	.428	.285
27	-.731	-.923	-.889	-.012	.002	-.136	-.144
28	-.334	-.450	-.287	-.041	-.114	-.098	-.111
29	-.044	-.057	.104	-.090	.008	.013	.039
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.017	.077	.148	.094	.051	.059	-.005
32	-.021	.108	.157	.143	.062	.065	-.040
33	.048	.195	.195	.164	.142	.064	-.031

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.117	1.170	.562	.028	.310	.554	.149
2	.833	.970	.815	-.686	-.569	-.252	-.489
3	.645	.803	.522	-.708	-.996	-.595	-.672
4	.281	.341	.226	-1.148	-1.283	-.889	-.870
5	-.168	-.043	-.214	-1.233	-1.403	-1.193	-1.074
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.445	-.377	-.256	-1.238	-1.317	-.883	-.734
11	-.542	-.758	*000.000	-.943	-1.098	-.803	-.780
12	-.703	-.489	-.398	-.623	-.557	-.434	-.440
13	-.179	-.309	-.208	-.152	-.245	-.279	-.317
14	-.088	-.150	-.148	-.083	-.098	-.167	-.220
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.065	-.014	-.040	0.	-.011	-.053	-.138
24	.054	.201	.147	.058	.084	.112	.030
25	.334	.492	-.047	.471	.967	1.121	.713
26	-.143	-.374	-.433	.401	*000.000	.807	.652
27	-.501	-.412	-.396	.540	.341	.258	.154
28	-.247	-.336	-.228	.310	.165	.111	-.014
29	-.098	-.087	.113	.137	.099	.100	.062
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.058	.070	.174	.057	.101	.158	.092
32	-.023	.095	.140	.108	.142	.157	-.032
33	.041	.182	.202	.137	.141	.125	.050

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.137	1.172	.548	-.778	-.493	-.152	-.327
2	.852	.764	.474	-1.764	-1.622	-1.311	-1.294
3	.342	.445	.267	-1.707	-1.854	-1.236	-1.219
4	-.052	-.055	-.148	-1.781	-2.090	-1.674	-1.472
5	-.483	-.443	-.476	-1.698	-1.883	-1.554	-1.344
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.801	-.729	-.746	-1.348	-1.528	-1.065	-.887
11	-.605	-.842	*000.000	-.947	-1.110	-.952	-.851
12	-.730	-.494	-.418	-.606	-.504	-.491	-.462
13	-.199	-.247	-.244	-.176	-.253	-.338	-.369
14	-.123	-.186	-.194	-.117	-.180	-.287	-.283
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.090	-.019	-.028	-.006	-.070	-.091	-.150
24	-.061	.190	.126	.014	-.017	-.053	-.025
25	.050	.719	.175	.206	.929	1.001	.715
26	.267	.071	.053	.189	*000.000	.941	.701
27	-.360	-.356	-.191	.606	.042	.535	.375
28	-.194	-.221	-.067	.436	.311	.258	.192
29	-.043	.002	.153	.232	.196	.189	.116
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.077	.093	.221	.185	.223	.188	.219
32	-.023	.115	.147	.248	.167	.188	.008
33	.020	.152	.204	.233	.115	.078	.108

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.948	1.024	.222	-1.098	-1.105	-.898	-1.244
2	.404	.407	-.031	-2.658	-2.148	-1.854	-1.814
3	.073	.072	-.238	-2.674	-2.380	-2.209	-2.211
4	-.326	-.350	-.482	-2.496	-2.267	-2.355	-2.180
5	-.642	-.808	-.745	-2.123	-2.000	-2.110	-1.943
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.754	-.925	-.929	-1.388	-.976	-1.340	-1.180
11	-.892	-.958	*000.000	-.709	-.567	-1.116	-1.067
12	-.806	-.555	-.485	-.584	-.450	-.659	-.600
13	-.256	-.349	-.321	-.417	-.449	-.518	-.512
14	-.144	-.175	-.145	-.333	-.424	-.381	-.373
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.152	-.040	-.048	-.407	-.471	-.324	-.261
24	-.178	.161	.150	-.116	-.184	-.055	.017
25	1.055	1.062	.498	-.256	.722	.772	.324
26	.558	.479	.430	.614	*000.000	1.034	.739
27	-.098	-.155	.098	.711	.753	.603	.466
28	-.154	-.155	.013	.728	.428	.355	.205
29	-.051	.012	.144	.239	.214	.191	.149
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.059	.101	.272	.188	.191	.208	.182
32	-.013	.096	.295	.230	.123	.139	.017
33	-.014	.140	.250	.164	.068	.077	.130

Table 5. - Continued.

(c) $C_{T,s} = 0.60$, $q_s = 22.18$

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.852	.432	.028	-2.572	-1.528	-1.542	-1.821
2	.045	-.015	-.666	-3.564	-2.513	-2.698	-2.563
3	-.273	-.484	-.545	-3.080	-2.258	-2.510	-2.478
4	-.683	-.804	-.838	-2.787	-2.277	-2.706	-2.485
5	-.926	-1.129	-1.005	-2.468	-1.905	-2.442	-2.171
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.873	-1.088	-.872	-.858	-.561	-1.435	-1.280
11	-.778	-1.125	*000.000	-.816	-.739	-1.351	-1.194
12	-.883	-.597	-.534	-.637	-.567	-.800	-.671
13	-.298	-.338	-.277	-.609	-.462	-.536	-.478
14	-.269	-.205	-.256	-.646	-.555	-.502	-.437
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.260	-.040	-.038	-.381	-.427	-.294	-.328
24	-.311	.129	.153	-.279	-.344	-.200	-.108
25	1.123	1.177	.482	-.890	.469	.438	-.056
26	.730	.884	.734	.678	*000.000	1.022	.447
27	.105	.209	.413	.698	.905	.750	.472
28	-.084	-.024	.163	.677	.488	.371	.302
29	-.074	.039	.157	.326	.257	.280	.230
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.058	.107	.269	.047	.197	.251	.200
32	-.023	.089	.243	.244	.149	.206	.005
33	-.068	.112	.208	.126	-.002	.042	.120

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.597	.320	-.473	-2.918	-2.058	-2.238	-2.522
2	-.335	-.440	-1.002	-2.650	-2.553	-3.268	-3.053
3	-.859	-.827	-1.176	-2.523	-2.603	-3.277	-3.140
4	-1.046	-1.278	-1.322	-2.421	-2.295	-3.187	-2.896
5	-1.451	-1.734	-1.562	-2.030	-1.908	-3.241	-2.875
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.014	-1.220	-1.025	-.535	-.630	-1.615	-1.455
11	-.771	-1.069	*000.000	-.460	-.590	-1.220	-1.118
12	-.953	-.670	-.635	-.669	-.613	-.859	-.748
13	-.376	-.400	-.424	-.464	-.544	-.661	-.621
14	-.347	-.271	-.398	-.463	-.523	-.505	-.425
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.412	-.078	-.199	-.513	-.486	-.390	-.313
24	-.537	.076	-.030	-.342	-.419	-.255	-.129
25	1.175	1.253	.401	-.747	.000	.176	-.800
26	.941	1.031	.773	.766	*000.000	1.008	.291
27	.205	.419	.578	.764	.981	.860	.438
28	-.021	.120	.196	.925	.623	.463	.340
29	-.042	.086	.150	.344	.301	.265	.243
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.097	.149	.247	.264	.266	.267	.247
32	-.006	.102	.153	.244	.147	.203	-.003
33	-.106	.111	.080	.219	.068	.128	.130

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.387	.184	-.932	-3.511	-2.829	-2.920	-3.500
2	-.708	-.985	-1.419	-2.987	-2.760	-3.654	-3.355
3	-1.058	-1.341	-1.655	-2.910	-2.969	-3.486	-2.883
4	-1.285	-1.554	-1.530	-1.850	-2.272	-3.301	-2.772
5	-1.460	-1.775	-1.527	-.831	-1.404	-2.814	-2.217
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.149	-1.448	-1.172	-.659	-.608	-1.504	-1.401
11	-.903	-1.197	*000.000	-.518	-.587	-.967	-.782
12	-.922	-.717	-.612	-.623	-.534	-.615	-.349
13	-.513	-.547	-.548	-.615	-.619	-.469	-.355
14	-.407	-.305	-.458	-.537	-.546	-.418	-.301
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.547	-.161	-.335	-.515	-.517	-.364	-.285
24	-.700	-.002	-.114	-.434	-.652	-.238	-.238
25	1.138	1.158	.460	-1.219	-.118	.031	-1.160
26	.964	1.145	.973	.722	*000.000	1.069	.174
27	.342	.574	.749	.714	1.013	.973	.586
28	.031	.202	.291	.790	.654	.537	.401
29	-.051	.121	.239	.456	.360	.370	.292
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.103	.143	.276	.263	.298	.376	.372
32	-.017	.107	.217	.240	.152	.247	.170
33	-.130	.082	.153	.115	-.017	.094	.082

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.022	-.308	-1.307	-3.054	-2.647	-2.914	-3.570
2	-1.170	-1.496	-2.075	-2.736	-3.009	-4.081	-3.603
3	-1.553	-2.035	-2.375	-2.631	-3.002	-4.425	-3.642
4	-1.650	-2.142	-2.107	-.844	-2.050	-3.442	-2.279
5	-1.795	-2.261	-1.970	-.625	-1.166	-2.783	-1.883
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.321	-1.578	-1.251	-.598	-.605	-1.576	-1.230
11	-1.034	-1.365	*000.000	-.602	-.632	-1.106	-.921
12	-.903	-.756	-.572	-.631	-.585	-.479	-.437
13	-.611	-.551	-.556	-.611	-.621	-.432	-.505
14	-.623	-.403	-.543	-.633	-.671	-.550	-.371
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.732	-.185	-.490	-.490	-.550	-.425	-.349
24	-.873	-.087	-.290	-.452	-.706	-.379	-.368
25	1.066	1.047	.305	-1.355	-.358	-.550	-2.078
26	1.024	1.208	1.066	.624	*000.000	.976	.082
27	.431	.771	.939	.622	1.065	.926	.329
28	.129	.353	.440	1.016	.748	.543	.272
29	-.065	.146	.268	.464	.396	.384	.300
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.167	.158	.277	.262	.260	.291	.167
32	.002	.123	.245	.279	.175	.193	-.020
33	-.141	.122	.165	.243	.011	.110	.044

Table 5.- Continued.

(d) $C_{T,S} = 0.30$, $q_S = 19.45$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.049	1.070	.703	.684	.838	.838	.648
2	.794	.891	.635	.692	.130	.103	-.075
3	.578	.675	.486	-.217	-.240	-.208	-.304
4	.252	.278	.040	-.584	-.616	-.571	-.781
5	-.139	-.215	-.444	-1.079	-1.051	-.920	-.827
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.542	-.697	-.897	-1.374	-1.320	-.859	-.813
11	-.619	-.836	*000.000	-1.056	-1.079	-.891	-.890
12	-.925	-.501	-.526	-.570	-.650	-.573	-.663
13	-.228	-.362	-.358	-.252	-.357	-.407	-.399
14	-.113	-.234	-.221	-.161	-.255	-.229	-.215
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.033	-.053	-.153	.018	-.070	-.071	-.174
24	.073	.146	.080	.083	.057	.061	.015
25	.348	.139	-.210	.532	.961	1.086	.825
26	-.349	-.821	-.904	.521	*000.000	.370	.389
27	-.866	-.868	-1.039	-.396	-.230	-.139	-.144
28	-.447	-.581	-.533	-.429	-.302	-.159	-.206
29	-.132	-.114	.071	-.024	-.058	.022	-.076
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.067	.016	.162	.020	.061	.056	-.076
32	-.007	.053	.172	.026	.043	.003	-.070
33	.049	.116	.150	.053	.075	.054	.036

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.058	1.142	.820	.126	.263	.286	.207
2	.534	.579	.248	-.993	-.893	-.873	-.860
3	.182	.145	-.131	-.971	-1.157	-.881	-.806
4	-.207	-.303	-.548	-1.544	-1.424	-1.252	-1.174
5	-.612	-.813	-1.091	-1.832	-1.784	-1.689	-1.600
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.723	-.949	-1.211	-1.598	-1.567	-1.180	-1.176
11	-.766	-1.052	*000.000	-1.200	-1.226	-1.203	-1.161
12	-1.131	-.671	-.657	-.674	-.844	-.739	-.638
13	-.211	-.343	-.344	-.251	-.220	-.406	-.475
14	-.217	-.243	-.263	-.197	-.230	-.338	-.399
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.084	-.048	-.103	-.074	-.105	-.143	-.231
24	-.007	.131	.123	.054	-.051	-.031	-.101
25	.766	.812	.494	.612	.899	.946	.841
26	.240	.135	.224	.603	*000.000	.649	.678
27	-.324	-.389	-.404	.169	.301	.211	.253
28	-.263	-.310	-.243	-.002	.042	.042	-.085
29	-.169	-.108	.038	-.059	.011	.003	-.058
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.102	.013	.142	-.021	.071	.070	-.016
32	-.020	.044	.171	.037	.054	.058	.098
33	-.020	.085	.147	.051	.041	.015	.036

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.828	.894	.255	-.876	-.656	-.511	-.580
2	.182	.143	-.404	-1.685	-1.447	-1.465	-1.509
3	-.154	-.213	-.518	-1.704	-1.966	-1.930	-1.895
4	-.867	-.840	-1.038	-2.127	-2.026	-2.099	-2.008
5	-.433	-1.193	-1.353	-2.150	-2.019	-2.087	-2.002
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.935	-1.198	-1.385	-1.643	-1.373	-1.393	-1.299
11	-.846	-1.184	*000.000	-1.040	-.522	-1.225	-1.229
12	-1.183	-.702	-.618	-.583	-.474	-.837	-.755
13	-.313	-.404	-.373	-.573	-.551	-.658	-.637
14	-.242	-.202	-.228	-.402	-.495	-.428	-.380
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.244	-.044	-.103	-.387	-.484	-.352	-.336
24	-.231	.104	.150	-.160	-.327	-.123	-.139
25	.927	1.088	.581	.358	.829	.765	.666
26	.569	.591	.544	.705	*000.000	.975	.874
27	-.198	-.091	-.023	.712	.593	.527	.501
28	-.153	-.143	-.057	.273	.233	.219	.202
29	-.204	-.088	.069	.203	.034	.054	.085
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.124	.056	.202	.086	.118	.079	.038
32	-.002	.086	.221	.209	.089	.066	.016
33	-.070	.093	.171	.114	-.003	-.026	-.096

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.553	.503	-.488	-2.017	-1.432	-1.463	-1.498
2	-.468	-.691	-1.389	-2.642	-2.030	-2.322	-2.321
3	-.808	-1.113	-1.702	-3.232	-2.676	-2.956	-2.919
4	-1.130	-1.475	-1.887	-2.924	-2.408	-3.158	-3.069
5	-1.293	-1.721	-1.897	-2.424	-1.804	-2.541	-2.510
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.075	-1.431	-1.553	-1.629	-.886	-1.534	-1.551
11	-.954	-1.345	*000.000	-.925	-.816	-1.498	-1.431
12	-1.230	-.719	-.660	-.533	-.543	-.965	-.890
13	-.289	-.338	-.339	-.689	-.535	-.561	-.639
14	-.284	-.205	-.232	-.549	-.523	-.469	-.575
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.365	-.078	-.132	-.524	-.532	-.394	-.369
24	-.572	.048	.099	-.308	-.314	-.255	-.273
25	1.192	1.277	.629	-.054	.671	.403	.263
26	.847	1.012	.813	.812	*000.000	1.040	.836
27	.205	.313	.395	.731	.778	.745	.614
28	.004	.053	.137	.245	.333	.326	.318
29	-.086	.015	.142	.359	.155	.182	.193
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.108	.087	.225	.106	.139	.139	.085
32	-.019	.060	.194	.122	.050	.081	-.010
33	-.108	.080	.171	.042	-.043	.011	-.101

Table 5. - Concluded.

(d) $C_{T,s} = 0.30$, $q_s = 19.45$

$\alpha = 25°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.106	-.084	-1.257	-2.987	-1.895	-2.470	-2.550
2	-1.156	-1.492	-2.192	-3.882	-2.499	-3.565	-3.459
3	-1.223	-1.698	-2.200	-3.411	-2.502	-3.511	-3.431
4	-1.662	-2.198	-2.525	-3.305	-2.484	-3.653	-3.545
5	-1.622	-2.188	-2.348	-2.445	-1.678	-3.108	-3.018
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.299	-1.745	-1.700	-.695	-.884	-1.988	-1.963
11	-1.010	-1.392	*000.000	-.825	-.675	-1.539	-1.479
12	-1.077	-.731	-.646	-.550	-.554	-1.011	-.948
13	-.398	-.395	-.433	-.728	-.628	-.717	-.708
14	-.374	-.255	-.304	-.573	-.532	-.556	-.486
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.523	-.120	-.339	-.485	-.493	-.487	-.405
24	-.847	-.035	-.120	-.476	-.505	-.348	-.194
25	1.128	1.209	.331	-.685	.389	-.195	-.358
26	1.020	1.124	.794	.778	*000.000	.891	.789
27	.470	.614	.639	.943	.922	.875	.808
28	.086	.173	.243	.533	.522	.473	.431
29	-.088	.043	.156	.478	.214	.212	.210
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.141	.119	.229	.169	.157	.184	.207
32	-.010	.072	.185	.168	.069	.086	-.048
33	-.141	.066	.081	.177	-.064	-.028	.012

$\alpha = 30°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-.376	-.774	-2.065	-3.637	-2.567	-3.378	-3.664
2	-1.590	-2.203	-2.942	-3.153	-2.471	-4.260	-4.127
3	-1.922	-2.590	-3.062	-3.255	-2.831	-4.515	-4.382
4	-2.275	-2.804	-2.873	-2.518	-2.389	-4.525	-4.393
5	-2.075	-2.703	-2.688	-1.542	-1.372	-3.492	-3.394
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.411	-1.831	-1.610	-.658	-.529	-2.138	-2.229
11	-1.016	-1.398	*000.000	-.626	-.609	-1.606	-1.555
12	-.938	-.724	-.613	-.600	-.572	-1.010	-.932
13	-.499	-.481	-.536	-.508	-.542	-.839	-.708
14	-.590	-.353	-.014	-.700	-.692	-.766	-.615
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.856	-.194	-.427	-.589	-.604	-.608	-.491
24	-1.172	-.108	-.319	-.478	-.546	-.484	-.377
25	.918	.884	-.289	-.915	.085	-.748	-1.138
26	1.170	1.278	.940	.720	*000.000	.785	.523
27	.692	.847	.808	.774	.938	.881	.710
28	.221	.374	.410	.650	.705	.586	.513
29	-.073	.115	.200	.308	.298	.261	.340
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.147	.153	.233	.044	.220	.197	.240
32	-.057	.050	.131	.137	.049	.055	-.056
33	-.208	.033	.043	-.032	-.037	-.048	.020

$\alpha = 35°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-1.065	-1.619	-2.840	-3.315	-2.707	-3.776	-3.953
2	-2.547	-3.335	-4.081	-3.756	-3.102	-5.078	-4.803
3	-2.675	-3.542	-3.955	-3.358	-2.866	-5.016	-4.746
4	-2.568	-3.297	-3.461	-2.095	-2.191	-4.258	-3.956
5	-2.476	-3.240	-3.105	-.794	-1.313	-3.608	-3.336
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.637	-2.112	-1.774	-.632	-.671	-2.131	-2.151
11	-1.066	-1.453	*000.000	-.646	-.651	-1.446	-1.381
12	-1.063	-.793	-.693	-.579	-.655	-.930	-.845
13	-.608	-.539	-.668	-.738	-.776	-.735	-.660
14	-.743	-.344	-.584	-.649	-.721	-.664	-.578
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-1.331	-.270	-.666	-.650	-.698	-.577	-.470
24	-1.392	-.220	-.489	-.593	-.757	-.432	-.435
25	.713	.523	-.562	-1.598	-.500	-1.633	-2.380
26	1.204	1.335	1.048	.679	*000.000	.709	.300
27	.885	.970	1.031	.564	.914	.860	.665
28	.317	.564	.604	.864	.736	.667	.584
29	-.029	.227	.312	.355	.314	.270	.249
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.110	.217	.323	.251	.264	.257	.261
32	-.002	.109	.213	.171	.105	.137	-.011
33	-.232	.076	.096	.171	-.082	-.060	-.042

Table 6.- Pressure coefficients for wing with propeller rotation down at tip, basic leading edge, fences on, $\delta_f = 20°$.

(a) $C_{T,s} = 0.90$, $q_s = 20.22$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.978	.782	-.035	-.018	-.031	.004	-.059
2	.993	1.182	.888	-.024	-.059	-.045	-.044
3	.994	1.187	1.048	-.021	-.076	-.003	-.022
4	.995	.987	1.016	-.019	-.040	.034	-.034
5	.171	.590	.718	.011	-.029	-.023	-.028
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.133	-.095	-.069	-.901	-.833	-.467	-.269
11	-.244	-.470	*000.000	-.546	-.927	-.415	-.292
12	-.504	-.427	-.356	-.278	-.631	-.292	-.187
13	-.177	-.380	-.398	-.371	-.443	-.201	-.167
14	-.145	-.308	-.295	-.256	-.414	-.194	-.127
15	-.131	-1.503	.336	.291	.166	.238	-.196
16	.035	.284	.277	.412	.318	.357	-.033
17	.059	.250	.260	.446	.343	.417	.079
18	.040	.182	.191	.330	.308	.328	.096
19	.062	.040	.021	.085	-.007	.332	.015
20	-.202	-.309	-.340	-.500	-.479	-.369	-.143
21	-.389	-.599	-.713	-.806	-.789	-.591	-.264
22	-.446	-.607	-.644	-.761	-.759	-.482	-.250
23	-.194	-.295	-.246	-.214	-.313	-.295	-.218
24	-.084	.059	.086	.181	.155	.108	.007
25	-.861	-.824	-1.953	.015	-.036	-.019	-.017
26	-.478	-1.665	-2.224	-1.385	*000.000	-.950	.353
27	-.666	-1.041	-1.204	.520	.336	.129	.191
28	-.207	-.477	-.303	.400	.211	.090	.059
29	-.084	.136	.271	.347	.337	.289	.250
30	.047	.752	.859	.990	1.021	1.076	.917
31	.045	.555	.552	.723	.655	.689	.552
32	-.005	.357	.449	.562	.513	.447	.536
33	.007	.287	.331	.442	.384	.370	.104

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.997	.880	.066	-.029	-.046	-.040	-.067
2	.986	1.174	.888	-.079	-.067	-.060	-.064
3	.826	1.110	.986	-.022	-.030	-.056	-.046
4	.506	.791	.958	-.046	-.048	-.009	-.096
5	.130	.396	.563	-.062	-.043	-.048	-.084
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.185	-.199	-.127	-1.023	-.938	-.511	-.345
11	-.320	-.530	*000.000	-.662	-.954	-.436	-.340
12	-.504	-.426	-.426	-.337	-.597	-.315	-.267
13	-.192	-.392	-.312	-.434	-.459	-.257	-.282
14	-.177	-.357	-.312	-.430	-.447	-.239	-.228
15	-.171	-1.472	.334	.213	.171	.226	-.342
16	.013	.255	.236	.373	.324	.385	-.088
17	.084	.227	.401	.389	.319	.400	-.032
18	.031	.169	.244	.302	.289	.297	-.001
19	.033	.037	.093	.031	.015	.261	-.036
20	-.232	-.325	-.300	-.550	-.508	-.378	-.255
21	-.441	-.632	-.678	-.764	-.762	-.528	-.291
22	-.498	-.682	-.740	-.755	-.762	-.602	-.369
23	-.209	-.115	-.226	-.241	-.295	-.285	-.276
24	-.118	.045	.096	.145	.141	.074	-.054
25	-.048	-.496	-1.370	-.051	-.054	-.034	-.049
26	-.407	-1.276	-1.444	-1.319	*000.000	-.931	.247
27	-.669	-.914	-.990	.588	.498	.195	.261
28	-.187	-.371	-.117	.401	.296	.204	.105
29	-.072	.135	.265	.376	.327	.288	.264
30	.428	.817	.847	.982	1.032	1.058	.905
31	.081	.559	.602	.669	.627	.624	.520
32	.042	.332	.445	.523	.504	.470	.546
33	-.002	.293	.412	.505	.376	.300	-.052

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.037	.994	.303	-.022	-.017	-.032	-.080
2	.945	1.135	.827	.019	-.018	-.059	-.025
3	.772	1.058	.989	-.035	-.015	-.050	-.051
4	.439	.771	.893	-.014	.008	-.046	-.036
5	.042	.283	.443	-.008	-.020	-.042	-.025
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.232	-.269	-.260	-1.125	-1.073	-.653	-.435
11	-.348	-.570	*000.000	-.747	-.982	-.576	-.450
12	-.507	-.469	-.453	-.333	-.633	-.305	-.229
13	-.178	-.407	-.395	-.381	-.434	-.271	-.213
14	-.208	-.366	-.333	-.381	-.434	-.311	-.230
15	-.090	-1.577	.394	.371	.271	.270	-.230
16	.116	.254	.299	.441	.358	.311	-.008
17	.083	.244	.322	.434	.336	.374	-.019
18	.060	.160	.325	.388	.318	.323	.004
19	.009	.012	.060	.046	-.008	.288	-.046
20	-.305	-.377	-.375	-.515	-.515	-.338	-.257
21	-.456	-.644	-.624	-.741	-.721	-.500	-.346
22	-.548	-.727	-.728	-.771	-.742	-.632	-.396
23	-.267	-.170	-.220	-.195	-.311	-.308	-.273
24	-.150	-.108	-.066	-.177	-.128	-.001	-.086
25	-.127	-.246	-1.154	-.008	-.038	-.081	-.047
26	-.321	-1.080	-1.383	-1.354	*000.000	-1.047	.189
27	-.612	-.811	-1.019	.718	.660	.338	.409
28	-.170	-.356	-.147	.506	.392	.197	.116
29	-.047	.170	.282	.426	.398	.289	.278
30	.551	.911	.588	1.061	1.084	.994	.993
31	.176	.572	.498	.683	.659	.587	.575
32	.071	.356	.439	.567	.583	.447	.539
33	-.033	.283	.379	.452	.444	.343	.016

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.082	1.136	.441	-.043	-.042	-.057	-.047
2	.899	1.134	.873	-.022	-.008	-.032	-.028
3	.727	1.002	.896	-.017	-.020	-.046	-.005
4	.323	.944	.767	-.020	-.023	.006	-.031
5	-.028	.140	.362	-.027	-.039	-.006	-.035
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.301	-.346	-.419	-1.369	-1.354	-.830	-.526
11	-.394	-.616	*000.000	-.818	-1.115	-.662	-.505
12	-.592	-.458	-.448	-.334	-.679	-.345	-.275
13	-.191	-.388	-.425	-.365	-.484	-.302	-.224
14	-.227	-.369	-.298	-.340	-.438	-.236	-.197
15	-.062	-1.522	.398	.417	.235	.323	-.215
16	.049	.276	.414	.437	.373	.334	-.048
17	.141	.223	.318	.407	.349	.436	.054
18	.102	.190	.208	.328	.286	.295	.077
19	-.012	.015	.035	.055	-.031	.268	-.030
20	-.335	-.372	-.423	-.548	-.527	-.417	-.234
21	-.474	-.687	-.695	-.702	-.803	-.575	-.318
22	-.496	-.695	-.733	-.645	-.745	-.602	-.348
23	-.355	-.190	-.243	-.185	-.287	-.332	-.321
24	-.205	-.127	.044	-.201	-.152	.041	-.035
25	.266	.103	-.646	-.012	-.031	-.030	-.048
26	-.179	-.758	-1.055	-1.301	*000.000	-.981	.188
27	-.533	-.690	-.852	.808	.734	.438	.442
28	-.156	-.278	-.214	.612	.433	.287	.180
29	-.107	.176	.346	.464	.424	.380	.299
30	.563	.950	.733	.971	.996	1.052	.966
31	.212	.601	.580	.740	.654	.682	.629
32	.075	.393	.400	.703	.531	.467	.590
33	-.020	.288	.303	.454	.365	.367	.101

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.126	1.178	.838	-.058	-.084	-.069	-.015
2	.826	1.027	.866	-.057	-.080	-.084	0.
3	.638	.951	.862	-.056	-.093	-.043	-.049
4	.234	.853	.826	-.078	-.078	-.083	-.069
5	-.150	.017	.141	-.044	-.081	-.056	-.030
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.318	-.436	-.564	-1.480	-1.436	-.902	-.661
11	-.416	-.742	*000.000	-.934	-1.242	-.689	-.503
12	-.630	-.519	-.493	-.347	-.670	-.329	-.267
13	-.260	-.459	-.433	-.398	-.507	-.345	-.256
14	-.245	-.398	-.425	-.409	-.441	-.311	-.206
15	-.086	-1.492	.251	.401	.193	.317	-.235
16	.060	.227	.297	.392	.320	.415	-.106
17	.090	.204	.410	.412	.319	.378	.046
18	.064	.134	.266	.255	.255	.261	.042
19	-.009	.002	-.026	-.005	-.074	.286	-.018
20	-.363	-.456	-.524	-.593	-.561	-.457	-.221
21	-.529	-.726	-.757	-.687	-.795	-.545	-.309
22	-.573	-.808	-.730	-.635	-.789	-.643	-.402
23	-.428	-.282	-.362	-.200	-.351	-.350	-.328
24	-.277	.069	-.001	.154	.103	.045	-.081
25	.420	.268	-.412	-.090	-.059	-.064	-.005
26	-.054	-.545	-.707	-1.382	*000.000	-1.010	.129
27	-.479	-.577	-.633	.822	.806	.475	.341
28	-.154	-.258	-.196	.618	.462	.267	.202
29	-.107	.162	.284	.438	.377	.297	.302
30	.662	.982	.840	.937	.969	1.038	.874
31	.178	.552	.484	.693	.618	.658	.664
32	.057	.387	.500	.698	.530	.495	.551
33	.014	.295	.299	.395	.334	.331	.090

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.056	1.192	.853	-.030	-.025	-.010	-.006
2	.757	1.018	.691	.008	-.019	-.056	-.056
3	.527	.763	.793	-.038	-.040	-.031	-.028
4	.095	.603	.307	-.014	-.026	-.022	-.014
5	-.234	-.084	.086	-.028	-.027	-.006	-.053
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.414	-.491	-.512	-1.518	-1.467	-.901	-.600
11	-.477	-.744	*000.000	-.941	-1.175	-.623	-.458
12	-.726	-.547	-.739	-.358	-.662	-.407	-.325
13	-.341	-.496	-.553	-.419	-.471	-.367	-.300
14	-.337	-.442	-.626	-.359	-.417	-.347	-.308
15	-.106	-1.466	.147	.418	.259	.321	-.263
16	.035	.231	.107	.450	.386	.403	-.126
17	.023	.180	.233	.402	.359	.379	-.040
18	.027	.141	-.014	.290	.300	.237	-.006
19	-.085	-.044	-.229	0.	.003	.297	-.035
20	-.468	-.473	-.532	-.531	-.508	-.463	-.326
21	-.627	-.837	-.976	-.642	-.806	-.623	-.490
22	-.713	-.809	-.864	-.630	-.741	-.603	-.371
23	-.646	-.328	-.299	-.194	-.290	-.329	-.352
24	-.408	.095	-.128	.076	.121	.018	-.048
25	.510	.527	-.337	-.045	-.017	-.045	-.088
26	.051	-.196	-.626	-1.313	*000.000	-.998	.061
27	-.436	-.412	-.715	.905	.909	.600	.313
28	-.157	-.195	-.341	.661	.542	.300	.188
29	-.163	.155	.160	.495	.423	.345	.285
30	.627	1.103	.799	.955	1.027	1.093	.856
31	.183	.578	.608	.750	.693	.758	.501
32	.070	.404	.240	.601	.553	.478	.533
33	-.032	.307	.222	.444	.373	.320	.029

Table 6. - Continued.

(a) $C_{T,S} = 0.90$, $q_S = 20.22$

$\alpha = 35°$

TUBE NO	1	2	WING STATIONS 3	4	5	6	7
1	1.078	1.228	.841	-.023	-.061	-.060	-.000
2	.634	.875	.860	-.011	-.038	-.066	-.059
3	.438	.623	.731	-.056	-.062	-.058	-.056
4	.029	.208	.553	-.057	-.061	-.015	-.059
5	-.316	-.298	-.043	-.043	-.062	-.037	-.031
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.449	-.625	-.621	-1.659	-1.632	-.942	-.622
11	-.530	-.863	*000.000	-1.015	-1.266	-.633	-.530
12	-.791	-.822	-.625	-.354	-.675	-.417	-.404
13	-.408	-.544	-.413	-.434	-.471	-.363	-.301
14	-.472	-.535	-.425	-.414	-.447	-.293	-.186
15	-.404	-1.456	.335	.439	.241	.323	-.324
16	-.099	.130	.400	.443	.369	.383	-.134
17	-.059	.067	.466	.348	.344	.354	-.124
18	.009	.037	.246	.301	.282	.333	.018
19	-.144	-.129	-.035	-.014	-.026	.244	-.080
20	-.602	-.614	-.564	-.567	-.491	-.434	-.237
21	-.924	-.995	-.919	-.663	-.786	-.654	-.472
22	-.968	-1.025	-.858	-.537	-.839	-.691	-.462
23	-.779	-.855	-.346	-.190	-.329	-.357	-.444
24	-.447	.050	.154	.065	.040	.021	-.085
25	.623	.722	.110	-.048	-.059	-.086	-.050
26	.106	.014	-.177	-1.270	*000.000	-1.026	.069
27	-.430	-.318	-.337	.945	.913	.590	.091
28	-.196	-.180	-.067	.720	.941	.268	.193
29	-.208	.145	.213	.518	.426	.331	.216
30	.828	1.103	.995	1.021	1.053	1.083	.721
31	.191	.546	.547	.733	.637	.793	.513
32	.034	.354	.424	.528	.447	.536	.519
33	-.082	.275	.305	.426	.369	.408	.060

$\alpha = 40°$

TUBE NO	1	2	WING STATIONS 3	4	5	6	7
1	1.065	1.192	.820	-.070	-.024	-.103	-.058
2	.607	.703	.543	-.081	-.037	-.003	-.043
3	.396	.385	.410	-.058	-.030	-.077	-.049
4	-.079	-.094	.128	-.055	-.012	-.025	-.021
5	-.490	-.519	-.292	-.079	-.028	-.078	-.033
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.484	-.709	-.731	-1.639	-1.587	-1.082	-.739
11	-.537	-.869	*000.000	-.918	-1.178	-.719	-.588
12	-.880	-.842	-.643	-.341	-.682	-.539	-.426
13	-.478	-.597	-.499	-.424	-.446	-.444	-.341
14	-.559	-.592	-.449	-.420	-.403	-.386	-.301
15	-.507	-1.294	.247	.476	.305	.344	-.303
16	-.168	-.038	.390	.424	.341	.333	-.051
17	-.045	.056	.257	.365	.348	.396	.009
18	-.055	.009	.126	.270	.291	.292	-.044
19	-.203	-.160	-.051	-.045	-.007	.245	-.109
20	-.757	-.684	-.524	-.561	-.478	-.520	-.414
21	-1.054	-1.086	-.879	-.576	-.755	-.650	-.370
22	-1.162	-1.117	-.899	-.568	-.775	-.647	-.469
23	-.884	-.538	-.347	-.238	-.331	-.502	-.516
24	-.448	.016	.109	-.035	.132	-.056	-.085
25	.688	.857	.494	-.055	-.017	-.098	-.001
26	.221	.055	.349	-1.238	*000.000	-1.000	.140
27	-.376	-.157	-.118	.958	.992	.538	.144
28	-.180	-.136	-.016	.748	.639	.235	.187
29	-.192	.185	.286	.543	.464	.276	.220
30	.929	1.077	.966	.991	1.020	1.056	.379
31	.207	.553	.577	.688	.641	.720	.394
32	.059	.388	.496	.582	.554	.462	.539
33	-.088	.274	.304	.422	.390	.317	.089

$\alpha = 45°$

TUBE NO	1	2	WING STATIONS 3	4	5	6	7
1	.980	1.105	.879	-.058	-.050	-.087	-.064
2	.421	.532	.607	-.059	-.040	-.043	-.000
3	.149	.215	.147	-.058	-.017	-.102	-.089
4	-.225	-.198	-.143	-.050	-.029	-.066	-.029
5	-.547	-.532	-.399	-.049	-.057	-.119	-.030
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.591	-.818	-.839	-1.725	-1.720	-1.224	-.904
11	-.605	-.942	*000.000	-.865	-1.180	-.804	-.608
12	-.940	-.894	-.664	-.308	-.651	-.504	-.389
13	-.567	-.630	-.559	-.424	-.458	-.436	-.356
14	-.709	-.611	-.513	-.431	-.461	-.367	-.325
15	-.535	-1.231	.304	.497	.246	.300	-.271
16	-.141	.002	.360	.420	.359	.388	-.192
17	-.130	.040	.292	.370	.297	.461	-.060
18	-.078	.017	.203	.246	.237	.209	-.150
19	-.277	-.178	-.048	-.028	-.033	.254	-.130
20	-.918	-.760	-.548	-.575	-.489	-.572	-.315
21	-1.301	-1.191	-.952	-.562	-.628	-.507	-.439
22	-1.285	-1.140	-.904	-.501	-.678	-.737	-.543
23	-1.114	-.597	-.404	-.237	-.307	-.439	-.457
24	-.565	-.015	.045	-.037	.074	-.073	-.135
25	.703	.983	.847	.071	-.062	-.052	-.025
26	.238	.452	.577	-1.140	*000.000	-.894	.164
27	-.321	-.040	.039	.878	.954	.499	.090
28	-.157	-.058	.027	.713	.805	.186	.151
29	-.152	.150	.245	.508	.405	.288	.188
30	.648	.993	.942	.915	.935	1.077	.349
31	.205	.552	.591	.705	.597	.715	.349
32	.040	.360	.492	.533	.476	.471	.528
33	-.148	.263	.351	.413	.330	.270	-.010

$\alpha = 50°$

TUBE NO	1	2	WING STATIONS 3	4	5	6	7
1	.928	1.024	.697	-.057	-.039	.081	-.123
2	.380	.382	.147	-.022	-.035	.014	-.100
3	.096	-.010	-.021	-.051	-.033	.059	-.083
4	-.321	-.428	-.370	-.038	-.012	.100	-.034
5	-.609	-.642	-.747	-.058	-.032	-.003	-.004
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.849	-.907	-1.015	-1.784	-1.859	-1.184	-.954
11	-.668	-1.031	*000.000	-.917	-1.269	-.506	-.495
12	-1.014	-.770	-.725	-.343	-.787	-.443	-.508
13	-.666	-.719	-.615	-.445	-.533	-.297	-.400
14	-.693	-.688	-.594	-.431	-.457	-.327	-.309
15	-.536	-1.215	.240	.451	.254	.366	-.406
16	-.202	.003	.273	.421	.362	.505	-.174
17	-.143	.017	.235	.382	.325	.562	-.049
18	-.113	.063	.189	.249	.247	.240	-.136
19	-.311	-.233	-.141	-.033	-.077	.267	-.098
20	-1.023	-.817	-.649	-.587	-.550	-.306	-.325
21	-1.356	-1.273	-1.025	-.658	-.776	-.431	-.188
22	-1.490	-1.318	-1.002	-.593	-.613	-.359	-.436
23	-1.169	-.671	-.454	-.261	-.295	-.403	-.656
24	-.507	-.042	.024	-.014	.025	.038	-.151
25	.729	1.002	.845	-.041	-.040	.016	-.100
26	.298	.564	.664	-1.085	*000.000	-.790	.091
27	-.345	.008	.088	.969	1.005	.529	.133
28	-.136	-.049	.006	.795	.618	.349	.181
29	-.145	.183	.361	.573	.439	.384	.095
30	.908	1.039	.990	1.028	.975	1.256	.291
31	.219	.545	.571	.709	.592	.795	.417
32	.014	.398	.534	.608	.502	.469	.378
33	-.093	.288	.316	.432	.318	.402	-.015

$\alpha = 55°$

TUBE NO	1	2	WING STATIONS 3	4	5	6	7
1	.810	.968	.626	-.061	-.068	-.087	-.060
2	.218	.221	.030	-.071	-.048	-.093	-.093
3	-.079	-.044	-.110	-.021	-.056	-.029	-.097
4	-.495	-.524	-.553	-.068	-.060	.033	-.115
5	-.749	-.919	-.821	-.076	-.049	-.034	-.107
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.740	-1.035	-1.084	-1.853	-1.872	-.222	-.209
11	-.766	-1.183	*000.000	-1.031	-1.401	-.218	-.410
12	-1.144	-.864	-.750	-.393	-.772	-.213	-.313
13	-.832	-.853	-.698	-.563	-.571	-.186	-.233
14	-.963	-.788	-.595	-.463	-.610	-.126	-.248
15	-.567	-1.185	.233	.415	.183	.225	-.330
16	-.267	-.022	.290	.447	.313	.469	-.155
17	-.199	-.043	.267	.309	.263	.488	-.043
18	-.233	-.046	.144	.268	.149	.302	-.107
19	-.433	-.324	-.118	-.088	-.149	.184	-.123
20	-1.206	-.928	-.675	-.600	-.460	-.183	-.240
21	-1.570	#1.359	-1.026	-.702	-.520	-.216	-.430
22	-1.576	-1.367	-1.011	-.593	-.428	-.105	-.516
23	-1.162	-.696	-.484	-.473	-.336	-.331	-.363
24	-.457	-.047	.096	-.221	-.255	-.175	-.232
25	.697	1.041	.843	-.051	-.044	-.026	-.078
26	.296	.572	.717	-1.081	*000.000	-.819	.141
27	-.332	-.002	.073	.871	.889	.373	.064
28	-.196	-.049	-.007	.724	.548	.088	.142
29	-.172	.125	.301	.489	.338	.251	.108
30	.915	1.000	.976	.909	.876	.945	.108
31	.223	.559	.597	.669	.568	.655	.187
32	.007	.350	.483	.471	.409	.342	.324
33	-.181	.224	.312	.294	.209	.281	-.008

$\alpha = 60°$

TUBE NO	1	2	WING STATIONS 3	4	5	6	7
1	.861	.986	.548	-.063	-.016	-.040	-.062
2	.196	.284	.169	-.040	-.023	-.059	-.094
3	-.094	-.065	-.196	-.024	-.012	-.080	-.081
4	-.493	-.515	-.490	-.041	-.020	-.166	-.033
5	-.750	-.911	-.639	-.043	-.034	-.032	-.030
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.760	-.977	-.919	-.647	-.483	-.419	-.349
11	-.782	-1.077	*000.000	-.614	-.458	-.397	-.308
12	-.901	-.736	-.608	-.187	-.293	-.265	-.383
13	-.792	-.784	-.557	-.373	-.312	-.371	-.379
14	-.904	-.716	-.485	-.311	-.246	-.282	-.410
15	-.626	-1.158	.145	.494	.250	.236	-.321
16	-.221	-.030	.271	.412	.326	.261	-.231
17	-.229	-.010	.191	.315	.311	.256	-.141
18	-.259	-.019	.148	.292	.294	.124	-.105
19	-.382	-.252	-.100	.039	-.014	.205	-.157
20	-1.206	-.959	-.709	-.532	-.412	-.459	-.550
21	-1.710	-1.448	-1.088	-.591	-.420	-.350	-.286
22	-1.666	-1.394	-1.015	-.426	-.298	-.498	-.342
23	-1.240	-.782	-.600	-.380	-.201	-.314	-.321
24	-.516	-.096	-.067	-.330	-.213	-.309	-.339
25	.712	1.126	.948	-.055	-.043	-.047	-.008
26	.287	.676	.767	-.966	*000.000	-.881	.136
27	-.376	.047	.142	.981	1.030	.196	-.008
28	-.202	-.072	-.028	.721	.552	.030	.155
29	-.244	.146	.275	.551	.418	.271	.136
30	.814	1.039	1.052	1.001	.918	.914	.117
31	.139	.562	.594	.684	.583	.561	.149
32	-.023	.332	.424	.530	.443	.418	.471
33	-.113	.245	.319	.350	.248	.206	-.017

Table 6.- Continued.

(a) $C_{T,S} = 0.90$, $q_S = 20.22$

$\alpha = 65°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.819	.856	.577	-.037	-.030	.008	-.054
2	.089	.105	.023	-.017	-.028	.015	.004
3	-.160	-.252	-.203	-.044	-.069	.057	-.005
4	-.560	-.645	-.554	-.041	-.042	-.033	-.100
5	-.879	-1.012	-.714	-.045	-.053	-.016	-.097
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.843	-1.003	-.433	-.542	-.532	-.274	-.219
11	-.901	-1.188	*000.000	-.445	-.821	-.113	-.245
12	-1.170	-.986	-.750	-.136	-.569	-.113	-.324
13	-1.019	-.939	-.625	-.383	-.522	-.071	-.387
14	-1.141	-.897	-.592	-.395	-.290	-.017	-.286
15	-.633	-1.063	.174	.426	.202	.423	-.311
16	-.433	-.072	.241	.403	.288	.437	-.191
17	-.400	-.097	.200	.334	.256	.420	-.070
18	-.473	-.102	.148	.288	.118	.269	-.047
19	-.559	-.402	-.130	.003	-.060	.375	-.213
20	-1.494	-1.108	-.758	-.570	-.472	-.100	-.343
21	-1.941	-1.576	-1.073	-.610	-.502	-.197	-.200
22	-2.110	-1.603	-1.155	-.613	-.662	-.319	-.356
23	-1.302	-.833	-.531	-.274	-.283	-.221	-.254
24	-.480	-.126	.034	-.106	-.154	-.144	-.290
25	.633	1.134	.871	-.019	-.052	-.010	-.130
26	.347	.981	1.180	-1.198	*000.000	-.952	.314
27	-.379	.118	.254	.995	.986	-.057	.130
28	-.262	-.075	.067	.756	.570	.124	.218
29	-.275	.109	.316	.528	.465	.277	.080
30	.811	1.060	1.106	1.022	.948	1.102	.067
31	.171	.562	.644	.685	.548	.680	.036
32	-.081	.334	.528	.717	.390	.531	.213
33	-.232	.223	.385	.475	.250	.349	-.026

$\alpha = 70°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.639	.777	.199	-.078	-.084	-.106	-.058
2	-.129	-.048	-.353	-.076	-.075	-.089	-.086
3	-.361	-.423	-.638	-.111	-.079	-.008	-.053
4	-.720	-.880	-.993	-.085	-.067	-.019	-.082
5	-1.118	-1.287	-1.278	-.055	-.076	.031	-.060
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.994	-1.082	-.905	-.487	-.560	-.218	-.333
11	-1.026	-1.241	*000.000	-.575	-.554	-.243	-.279
12	-.854	-.897	-.596	-.201	-.329	-.101	-.319
13	-1.015	-.862	-.540	-.299	-.178	-.056	-.130
14	-1.102	-.836	-.531	-.286	-.294	-.160	-.319
15	-.616	-1.031	.153	.404	.182	.458	-.185
16	-.337	-.043	.227	.435	.297	.340	-.191
17	-.372	-.059	.169	.309	.232	.354	-.134
18	-.477	-.113	.094	.210	.230	.283	-.110
19	-.697	-.408	-.209	-.065	.069	.238	-.096
20	-1.466	-1.051	-.770	-.472	-.313	-.208	-.193
21	-1.894	-1.505	-1.065	-.462	-.333	-.161	-.266
22	-2.041	-1.578	-1.125	-.549	-.361	-.152	-.199
23	-1.329	-.834	-.570	-.257	-.244	-.264	-.276
24	-.428	-.103	.004	-.172	-.179	-.152	-.206
25	.733	1.222	1.002	-.061	-.053	-.027	-.114
26	.228	.843	.884	-.966	*000.000	-.751	.148
27	-.476	.107	.249	.945	.901	-.019	.051
28	-.331	-.069	.056	.679	.481	.088	.049
29	-.328	.115	.279	.469	.308	.222	.119
30	.729	1.034	1.036	.960	.895	.859	.088
31	.103	.604	.602	.625	.509	.609	.068
32	-.043	.359	.482	.611	.375	.383	.184
33	-.149	.242	.327	.337	.174	.192	-.044

$\alpha = 75°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.649	.755	.214	-.010	-.026	.040	-.038
2	-.192	-.198	-.338	-.023	-.016	-.025	.002
3	-.472	-.586	-.701	-.061	-.035	-.009	.066
4	-.846	-.929	-.935	-.016	-.005	.004	.062
5	-1.179	-1.339	-1.066	-.059	-.043	-.043	.016
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.038	-1.130	-1.012	-.740	-.711	-.066	.004
11	-1.132	-1.302	*000.000	-.523	-.679	-.097	-.020
12	-1.039	-.981	-.731	-.139	-.395	-.054	-.078
13	-1.111	-1.004	-.672	-.394	-.272	-.045	.036
14	-1.231	-.951	-.578	-.345	-.233	-.064	-.136
15	-.568	-1.052	.192	.438	.299	.406	.013
16	-.456	-.070	.183	.331	.261	.350	-.014
17	-.494	-.070	.196	.300	.303	.298	-.107
18	-.398	-.084	.152	.212	.266	.331	-.011
19	-.529	-.355	-.133	.017	.030	.308	.019
20	-1.460	-1.074	-.696	-.505	-.323	-.184	-.141
21	-1.896	-1.533	-1.029	-.444	-.271	-.135	-.056
22	-1.900	-1.498	-.959	-.343	-.248	-.084	-.112
23	-1.187	-.794	-.519	-.185	-.241	-.267	-.106
24	-.362	-.086	.042	-.069	-.068	.038	-.078
25	.592	1.128	.915	-.047	-.043	-.004	-.056
26	.275	.852	.902	-.858	*000.000	-.711	.183
27	-.454	.163	.407	.948	.905	-.049	.023
28	-.233	-.026	.079	.677	.492	.087	.138
29	-.261	.134	.305	.537	.329	.180	.209
30	.747	1.003	1.008	.952	.894	.883	.048
31	.184	.611	.636	.686	.513	.554	.228
32	-.037	.381	.525	.502	.367	.383	.341
33	-.083	.261	.410	.373	.242	.317	.165

$\alpha = 80°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.503	.701	.152	-.028	-.045	.013	-.041
2	-.316	-.225	-.371	-.041	-.055	-.063	-.013
3	-.590	-.574	-.700	-.053	-.060	-.038	-.034
4	-.991	-.959	-.892	-.054	-.062	-.071	-.041
5	-1.285	-1.241	-1.016	-.013	-.022	-.056	-.065
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.225	-1.240	-1.111	-.694	-.852	-.086	-.167
11	-1.091	-1.285	*000.000	-.495	-.709	-.065	-.127
12	-1.069	-1.061	-.745	-.133	-.452	-.021	-.131
13	-1.028	-.981	-.619	-.323	-.389	-.089	-.079
14	-1.202	-.951	-.608	-.338	-.347	-.037	-.070
15	-.541	-1.070	.122	.356	.218	.381	-.118
16	-.474	-.059	.181	.377	.300	.343	-.080
17	-.443	-.077	.157	.244	.224	.234	-.097
18	-.431	-.097	.145	.208	.235	.232	-.035
19	-.630	-.398	-.182	-.005	.005	.316	.014
20	-1.327	-1.025	-.615	-.443	-.272	-.072	-.044
21	-1.794	-1.451	-.974	-.474	-.271	-.058	-.094
22	-1.849	-1.423	-.965	-.403	-.263	-.214	-.160
23	-1.022	-.734	-.521	-.173	-.200	-.072	.034
24	-.328	-.084	.027	-.023	-.060	-.039	-.086
25	.540	1.121	.809	-.066	-.061	-.015	-.037
26	.216	.793	.854	-.786	*000.000	-.604	.176
27	-.412	.142	.282	.885	.843	-.092	.020
28	-.256	-.051	.076	.704	.470	.088	.027
29	-.326	.123	.245	.487	.234	.160	-.024
30	.642	.991	.991	.902	.724	.684	.013
31	.114	.580	.594	.507	.381	.453	.192
32	-.079	.344	.497	.464	.287	.309	.211
33	-.022	.228	.321	.299	.179	.180	.068

Table 6. - Continued.

(b) $C_{T,s} = 0.80$, $q_s = 20.01$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.056	.956	.208	-.040	-.055	-.050	-.028
2	1.164	1.140	.775	-.049	-.045	-.132	-.025
3	1.002	1.161	.974	-.037	-.036	-.094	-.044
4	.594	.737	.740	-.057	-.030	-.041	-.038
5	.227	.359	.417	-.057	-.040	-.095	-.060
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.177	-.232	-.333	-1.113	-1.019	-.657	-.430
11	-.348	-.421	*000.000	-.788	-1.060	-.649	-.471
12	-.599	-.510	-.493	-.389	-.709	-.441	-.311
13	-.146	-.446	-.513	-.431	-.508	-.381	-.293
14	-.202	-.403	-.495	-.468	-.503	-.422	-.284
15	-.143	-.476	.221	.273	.193	.173	-.367
16	.034	.285	.240	.379	.300	.299	-.121
17	.084	.207	.299	.385	.345	.338	-.053
18	.134	.108	.222	.313	.296	.290	-.015
19	.070	-.023	.038	.006	-.023	.275	-.057
20	-.298	-.445	-.412	-.620	-.606	-.502	-.318
21	-.500	-.737	-.804	-.857	-.895	-.716	-.388
22	-.598	-.662	-.847	-.855	-.840	-.708	-.466
23	-.284	-.138	-.304	-.260	-.315	-.419	-.241
24	-.089	.052	-.022	.151	.156	.061	.006
25	.150	-.383	-1.303	-.063	-.039	-.083	-.079
26	-.340	-1.269	-1.454	-.570	*000.000	-.495	.238
27	-.686	-.903	-.972	.467	.374	.092	.240
28	-.252	-.335	-.199	.333	.227	.108	.073
29	.038	.181	.233	.350	.381	.266	.236
30	1.031	.820	.441	1.043	1.145	1.134	.909
31	.351	.567	.419	.723	.883	.620	.488
32	.232	.372	.431	.545	.543	.435	.515
33	.103	.276	.229	.386	.391	.312	-.021

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.134	1.134	.551	-.056	-.055	-.020	-.010
2	.987	1.141	.887	-.056	-.049	.009	-.038
3	.752	.978	.884	-.038	-.041	-.013	-.055
4	.419	.592	.603	-.060	-.045	.018	-.006
5	-.010	.103	.217	-.036	-.042	-.011	-.058
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.404	-.433	-.442	-1.329	-1.374	-.877	-.638
11	-.426	-.705	*000.000	-.884	-1.151	-.670	-.593
12	-.694	-.570	-.488	-.404	-.771	-.436	-.394
13	-.225	-.484	-.379	-.424	-.564	-.312	-.279
14	-.262	-.478	-.493	-.465	-.538	-.356	-.316
15	-.349	-.437	.323	.343	.233	.293	-.285
16	.024	.259	.373	.450	.331	.442	-.094
17	.085	.254	.292	.418	.326	.446	-.005
18	.186	.157	.219	.334	.259	.326	-.016
19	.051	-.030	.039	.023	-.055	.358	.018
20	-.400	-.491	-.504	-.622	-.628	-.485	-.321
21	-.647	-.764	-.706	-.815	-.910	-.626	-.394
22	-.654	-.767	-.770	-.778	-.842	-.730	-.417
23	-.356	-.188	-.256	-.243	-.328	-.333	-.335
24	-.179	.006	.056	.156	.142	.121	-.039
25	.290	-.077	-.035	-.055	-.033	0.	.032
26	-.399	-.839	-.976	-.612	*000.000	-.437	.239
27	-.602	-.731	-.657	.652	.621	.395	.256
28	-.267	-.279	-.090	.447	.343	.267	.180
29	-.009	.154	.322	.462	.399	.380	.293
30	1.062	1.021	.588	1.044	1.124	1.155	.981
31	.402	.576	.619	.781	.726	.770	.531
32	.216	.383	.474	.565	.556	.507	.521
33	.056	.307	.376	.430	.396	.379	-.076

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.126	1.173	.550	-.043	-.067	-.066	-.001
2	.894	.994	.681	-.052	-.042	-.076	-.006
3	.640	.861	.657	-.034	-.048	-.029	.003
4	.234	.343	.438	-.049	-.041	-.021	.010
5	-.128	-.044	-.036	-.028	-.055	-.055	-.020
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.363	-.508	-.647	-1.456	-1.495	-1.003	-.709
11	-.490	-.800	*000.000	-.940	-1.309	-.856	-.722
12	-.789	-.579	-.554	-.416	-.821	-.516	-.422
13	-.257	-.478	-.549	-.455	-.602	-.373	-.333
14	-.290	-.472	-.493	-.450	-.550	-.416	-.260
15	-.377	-.417	.419	.291	.195	.286	-.275
16	.053	.212	.301	.402	.301	.303	-.080
17	.155	.165	.286	.369	.323	.313	-.061
18	.193	.170	.126	.282	.236	.253	.066
19	.018	-.025	.022	.024	-.109	.271	.002
20	-.460	-.431	-.459	-.561	-.624	-.575	-.276
21	-.680	-.769	-.824	-.737	-.856	-.678	-.359
22	-.809	-.883	-.814	-.788	-.864	-.802	-.483
23	-.403	-.242	-.315	-.174	-.261	-.372	-.374
24	-.243	.004	-.026	.140	.091	.077	-.050
25	.325	.348	-.095	-.063	-.043	-.047	-.028
26	-.040	-.401	-.449	-.576	*000.000	-.487	.138
27	-.435	-.425	-.498	.791	.775	.556	.349
28	-.177	-.201	.007	.570	.471	.309	.206
29	.021	.193	.229	.458	.435	.352	.318
30	1.058	1.055	.519	.985	1.048	1.034	.901
31	.424	.570	.447	.718	.861	.672	.613
32	.240	.429	.457	.588	.525	.493	.543
33	.085	.337	.355	.438	.412	.332	.040

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.156	1.218	.768	-.031	-.044	-.048	.013
2	.783	.866	.588	-.042	-.082	-.048	-.037
3	.524	.799	.492	-.028	-.078	-.022	.044
4	.113	.175	.174	-.042	-.085	-.013	.043
5	-.300	-.285	-.129	-.037	-.070	-.070	-.016
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.480	-.650	-.637	-1.604	-1.800	-1.264	-.920
11	-.556	-.857	*000.000	-.963	-1.417	-.931	-.768
12	-.911	-.614	-.494	-.378	-.841	-.505	-.489
13	-.359	-.544	-.356	-.481	-.611	-.453	-.385
14	-.411	-.502	-.348	-.451	-.581	-.434	-.305
15	-.383	-.429	.358	.482	.264	.282	-.235
16	.096	.134	.428	.460	.286	.347	-.073
17	.151	.134	.437	.406	.316	.380	-.170
18	.149	.139	.244	.340	.256	.265	-.041
19	-.021	-.095	.079	.010	-.097	.264	-.188
20	-.612	-.576	-.459	-.516	-.630	-.532	-.394
21	-.886	-.932	-.786	-.636	-.846	-.662	-.469
22	-.917	-.961	-.773	-.683	-.755	-.666	-.498
23	-.680	-.344	-.193	-.178	-.292	-.321	-.443
24	-.389	.118	.123	.119	.121	.052	-.088
25	.755	.729	.315	-.003	-.074	-.045	.024
26	.150	.048	.244	-.502	*000.000	-.439	.148
27	-.342	-.241	-.117	.895	.918	.725	.480
28	-.177	-.127	.161	.711	.595	.401	.238
29	0.	.204	.350	.528	.452	.372	.326
30	1.031	1.086	.832	.991	1.030	1.047	.840
31	.438	.615	.648	.770	.722	.704	.565
32	.224	.431	.494	.618	.569	.499	.486
33	.058	.355	.400	.493	.409	.350	-.001

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.107	1.127	.777	-.053	-.048	-.057	-.079
2	.982	.982	.862	-.048	-.069	-.051	-.075
3	.771	.719	.745	-.072	-.067	-.043	-.074
4	-.194	-.203	-.120	-.035	-.044	-.033	-.109
5	-.508	-.551	-.340	-.064	-.081	-.059	-.105
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.588	-.819	-.748	-1.734	-1.868	-1.297	-.949
11	-.829	-.981	*000.000	-1.040	-1.457	-.930	-.910
12	-.956	-.677	-.653	-.414	-.884	-.563	-.573
13	-.469	-.587	-.551	-.521	-.633	-.445	-.505
14	-.524	-.520	-.493	-.410	-.509	-.413	-.448
15	-.336	-.390	.310	.476	.274	.309	-.381
16	.096	.056	.447	.447	.340	.402	-.226
17	.047	.074	.406	.386	.337	.342	-.076
18	.097	.074	.331	.286	.241	.277	-.102
19	-.075	-.140	-.055	-.067	-.127	.219	-.119
20	-.752	-.715	-.417	-.614	-.707	-.575	-.432
21	-1.118	-1.053	-.633	-.624	-.881	-.757	-.480
22	-1.077	-1.023	-.824	-.549	-.775	-.754	-.570
23	-.949	-.447	-.394	-.207	-.308	-.385	-.415
24	-.507	.049	.243	-.003	.084	.095	-.163
25	.097	.425	.886	-.065	-.064	-.036	-.070
26	.242	.278	.574	-.505	*000.000	-.437	.066
27	-.292	-.117	.268	.938	1.020	.817	.283
28	-.155	-.077	.673	.783	.676	.443	.071
29	-.047	.224	.435	.579	.490	.384	.202
30	1.120	1.160	1.200	1.064	1.096	1.220	.773
31	.404	.593	.427	.910	.673	.772	.404
32	.184	.449	.592	.577	.521	.455	.455
33	.018	.321	.420	.419	.383	.364	-.013

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.037	1.085	.832	-.051	-.036	-.045	-.071
2	.965	.815	.171	-.067	-.074	-.018	-.098
3	.085	-.022	.044	-.066	-.045	-.041	-.100
4	-.355	-.442	-.260	-.083	-.055	-.060	-.074
5	-.555	-.491	-.328	-.088	-.069	-.039	-.089
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.731	-1.035	-1.046	-1.970	-2.082	-1.274	-.974
11	-.894	-1.104	*000.000	-.921	-1.500	-.917	-.775
12	-.994	-.776	-.885	-.809	-.896	-.448	-.493
13	-.581	-.654	-.503	-.498	-.638	-.450	-.486
14	-.713	-.657	-.523	-.521	-.606	-.431	-.402
15	-.342	-.645	.376	.482	.274	.364	-.386
16	-.019	.041	.406	.422	.336	.448	-.270
17	.018	.073	.348	.365	.318	.360	-.103
18	-.009	.034	.238	.276	.247	.307	-.124
19	-.190	-.205	-.067	-.083	-.112	.340	-.156
20	-.435	-.768	-.801	-.626	-.628	-.537	-.430
21	-1.234	-1.161	-.896	-.645	-.819	-.682	-.538
22	-1.416	-1.167	-.954	-.581	-.783	-.699	-.601
23	-1.207	-.588	-.377	-.253	-.339	-.485	-.490
24	-.508	.022	.087	-.021	.067	.018	-.142
25	.959	1.120	.813	-.079	-.051	-.030	-.081
26	.436	.883	.843	-.342	*000.000	-.249	.234
27	-.134	.126	.270	.980	1.030	.812	.213
28	-.133	.031	.196	.788	.678	.464	.159
29	-.046	.233	.378	.571	.507	.402	.248
30	1.023	1.066	1.003	1.006	1.034	1.108	.559
31	.405	.624	.853	.755	.703	.787	.241
32	.167	.445	.602	.621	.556	.566	.327
33	.004	.321	.370	.420	.388	.355	-.079

Table 6.- Continued.

(b) $C_{T,s} = 0.80$, $q_s = 20.01$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.981	.881	.304	-.045	-.059	-.079	-.113
2	.183	.008	-.242	-.041	-.051	-.074	-.136
3	-.109	-.325	-.547	-.013	-.043	-.106	-.109
4	-.570	-.783	-.818	-.033	-.049	-.085	-.106
5	-.990	-1.175	-1.052	-.047	-.057	-.077	-.097
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.784	-1.040	-1.107	-2.022	-2.110	-1.265	-.901
11	-.766	-1.130	*000.000	-1.007	-1.483	-.818	-.680
12	-1.178	-.940	-.751	-.420	-.891	-.557	-.518
13	-.721	-.745	-.610	-.483	-.609	-.471	-.378
14	-.931	-.894	-.594	-.455	-.515	-.447	-.417
15	-.388	-.712	.312	.593	.274	.340	-.526
16	-.125	.058	.372	.502	.375	.378	-.224
17	-.147	.060	.651	.415	.311	.357	-.186
18	-.141	.041	.250	.300	.248	.274	-.201
19	-.463	-.248	-.108	-.053	-.102	.279	-.239
20	-1.151	-.879	-.714	-.651	-.656	-.582	-.460
21	-1.576	-1.228	-1.033	-.606	-.795	-.642	-.534
22	-1.795	-1.480	-1.030	-.570	-.769	-.738	-.588
23	-1.413	-.894	-.427	-.266	-.338	-.479	-.589
24	-.573	-.003	.108	.008	.054	-.139	-.190
25	1.066	1.218	.852	-.044	-.087	-.042	-.085
26	.583	.903	.891	-.353	*000.000	-.380	.117
27	-.107	.252	.441	1.085	1.118	.933	.214
28	-.135	.110	.240	.895	.800	.428	.206
29	-.083	.268	.422	.664	.530	.307	.184
30	.949	1.069	1.073	1.045	1.020	1.086	.521
31	.371	.666	.715	.804	.695	.710	.233
32	.130	.454	.536	.653	.565	.538	.402
33	-.052	.340	.374	.460	.370	.361	-.017

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.847	.823	.117	-.050	-.058	.060	-.089
2	-.021	-.334	-.567	-.051	-.057	-.003	-.074
3	-.325	-.655	-.877	-.029	-.046	.050	-.080
4	-.776	-1.075	-1.018	-.036	-.035	.023	-.074
5	-1.098	-1.462	-1.317	-.059	-.048	-.014	-.121
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.937	-1.330	-1.414	-2.218	-2.333	-1.310	-1.130
11	-.943	-1.284	*000.000	-1.059	-1.499	-.778	-.707
12	-1.145	-.855	-.775	-.420	-.884	-.450	-.409
13	-.912	-.868	-.687	-.578	-.665	-.482	-.501
14	-1.063	-.814	-.652	-.526	-.594	-.445	-.422
15	-.394	-.849	.324	.500	.274	.366	-.458
16	-.265	.043	.337	.465	.384	.444	-.271
17	-.262	.040	.303	.400	.323	.467	-.223
18	-.267	.007	.221	.303	.241	.265	-.133
19	-.544	-.383	-.187	-.047	-.126	.333	-.207
20	-1.399	-1.032	-.785	-.725	-.684	-.509	-.449
21	-1.589	-1.374	-1.064	-.690	-.813	-.672	-.508
22	-1.984	-1.402	-1.085	-.620	-.688	-.612	-.540
23	-1.599	-.772	-.520	-.315	-.335	-.429	-.546
24	-.609	-.041	.066	-.074	-.012	-.018	-.205
25	1.121	1.273	.937	-.060	-.060	.019	-.091
26	.869	1.018	1.080	-.347	*000.000	-.251	.104
27	-.044	.401	.566	1.043	1.122	.849	.109
28	-.105	.148	.241	.923	.765	.608	.144
29	-.089	.285	.422	.634	.501	.405	.153
30	.975	1.108	1.113	1.079	1.061	1.276	.246
31	.359	.683	.737	.743	.674	.780	.340
32	.118	.491	.625	.659	.581	.511	.493
33	-.046	.345	.470	.500	.395	.335	-.045

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.665	.342	-.255	-.052	-.057	-.090	.058
2	-.237	-.738	-1.053	-.039	-.051	-.072	-.141
3	-.547	-1.133	-1.360	-.064	-.055	-.064	-.005
4	-1.024	-1.500	-1.655	-.045	-.042	-.079	-.144
5	-1.259	-1.702	-1.530	-.033	-.031	-.082	-.191
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.087	-1.423	-1.540	-2.273	-2.405	-.554	-.658
11	-.991	-1.383	*000.000	-1.075	-1.588	-.400	-.387
12	-1.488	-1.081	-.915	-.511	-.980	-.275	-.381
13	-1.078	-.950	-.765	-.594	-.671	-.393	-.470
14	-1.436	-.910	-.679	-.540	-.604	-.253	-.306
15	-.503	-.853	.294	.578	.272	.403	-.488
16	-.414	.022	.249	.476	.300	.374	-.260
17	-.511	.007	.264	.431	.279	.408	-.278
18	-.447	-.036	.193	.285	.165	.284	-.141
19	-.720	-.347	-.184	-.091	-.251	.255	-.116
20	-1.587	-1.083	-.810	-.769	-.697	-.394	-.412
21	-2.247	-1.610	-1.289	-.819	-.672	-.409	-.305
22	-2.247	-1.547	-1.177	-.725	-.623	-.368	-.450
23	-1.649	-.817	-.607	-.371	-.325	-.378	-.303
24	-.672	-.070	.042	-.054	-.108	-.348	-.238
25	1.159	1.281	.876	-.024	-.041	-.108	-.062
26	.716	1.104	1.042	-.350	*000.000	-.352	.155
27	-.018	.471	.611	1.018	1.119	.504	.133
28	-.104	.216	.316	.968	.839	.206	.173
29	-.119	.269	.382	.621	.487	.335	.100
30	.874	1.046	1.106	1.111	1.057	1.142	.124
31	.308	.673	.694	.805	.869	.720	.037
32	.070	.456	.592	.610	.529	.448	.283
33	-.107	.284	.410	.446	.323	.233	-.108

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.811	.384	-.252	-.061	-.039	.017	-.075
2	-.384	-.712	-1.052	-.064	-.035	.006	-.066
3	-.710	-1.129	-1.229	-.044	-.009	.026	-.059
4	-1.081	-1.346	-1.243	-.044	-.031	.008	-.059
5	-1.263	-1.543	-1.177	-.059	-.039	-.001	-.057
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.078	-1.252	-.956	-.441	-.480	-.425	-.428
11	-.995	-1.202	*000.000	-.765	-.625	-.411	-.438
12	-.956	-.880	-.643	-.333	-.405	-.332	-.413
13	-1.024	-.737	-.460	-.380	-.378	-.282	-.410
14	-1.206	-.787	-.549	-.344	-.389	-.278	-.385
15	-.472	-.629	.277	.530	.289	.353	-.475
16	-.417	.060	.330	.476	.371	.395	-.270
17	-.479	.023	.275	.391	.339	.375	-.170
18	-.432	-.007	.265	.295	.269	.270	-.154
19	-.623	-.311	-.078	-.006	-.054	.270	-.173
20	-1.496	-.963	-.644	-.502	-.442	-.415	-.428
21	-2.041	-1.467	-1.060	-.574	-.506	-.280	-.523
22	-2.151	-1.402	-1.043	-.463	-.411	-.429	-.405
23	-1.499	-.840	-.674	-.430	-.397	-.376	-.422
24	-.694	-.058	-.163	-.302	-.254	-.311	-.414
25	1.048	1.214	.760	-.060	-.019	-.040	-.086
26	.582	1.058	1.095	-.313	*000.000	-.238	.191
27	-.025	.525	.559	.947	1.066	.410	.099
28	-.143	.227	.319	.821	.728	.214	.143
29	-.120	.262	.372	.549	.431	.326	.222
30	.808	1.055	1.093	1.025	1.032	1.076	.055
31	.278	.708	.735	.740	.641	.737	.245
32	.054	.478	.602	.547	.539	.515	.338
33	-.071	.333	.389	.350	.288	.244	-.102

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.491	.194	-.417	-.025	-.032	-.005	.022
2	-.534	-.769	-.920	-.032	-.035	-.049	-.062
3	-.864	-1.226	-1.257	-.038	-.039	-.048	-.031
4	-1.287	-1.550	-1.284	-.040	-.035	-.048	-.021
5	-1.576	-1.717	-1.210	-.037	-.036	-.052	-.004
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.190	-1.278	-.998	-.471	-.428	-.381	-.367
11	-1.130	-1.269	*000.000	-.446	-.422	-.342	-.371
12	-.921	-.899	-.593	-.149	-.410	-.288	-.362
13	-1.140	-.940	-.449	-.294	-.284	-.311	-.317
14	-1.330	-.911	-.495	-.450	-.394	-.356	-.339
15	-.531	-.535	.241	.552	.262	.400	-.378
16	-.574	.065	.349	.538	.350	.360	-.267
17	-.484	.018	.321	.428	.336	.335	-.159
18	-.532	-.014	.305	.374	.247	.208	-.107
19	-.854	-.347	-.043	-.019	-.114	.268	-.199
20	-1.606	-.984	-.543	-.524	-.473	-.399	-.339
21	-2.064	-1.342	-.928	-.503	-.377	-.398	-.313
22	-2.049	-1.324	-.900	-.295	-.345	-.354	-.305
23	-1.578	-.704	-.535	-.322	-.374	-.366	-.420
24	-.521	-.072	-.113	-.275	-.328	-.349	-.339
25	1.021	1.149	.807	-.038	-.010	-.040	-.006
26	.691	1.146	1.091	-.255	*000.000	-.230	.265
27	-.049	.583	.760	1.072	1.151	.105	.106
28	-.127	.248	.333	.850	.704	.140	.221
29	-.202	.304	.448	.657	.508	.345	.229
30	.728	1.017	1.045	.997	.987	1.016	-.014
31	.251	.593	.620	.750	.585	.709	.179
32	.019	.436	.571	.604	.494	.477	.308
33	-.071	.327	.396	.379	.286	.279	-.040

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.373	.041	-.623	-.039	-.022	-.020	-.006
2	-.763	-1.152	-1.309	-.042	-.054	-.040	-.056
3	-1.108	-1.496	-1.347	-.019	-.042	-.053	-.041
4	-1.539	-1.851	-1.741	-.025	-.059	-.070	-.095
5	-1.894	-1.919	-1.475	-.035	-.029	-.026	-.104
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.475	-1.520	-1.207	-.595	-.668	-.255	-.258
11	-1.142	-1.281	*000.000	-.370	-.421	-.219	-.315
12	-.888	-.918	-.556	-.149	-.247	-.272	-.302
13	-1.255	-.915	-.523	-.292	-.323	-.193	-.316
14	-1.526	-.810	-.425	-.351	-.282	-.275	-.341
15	-.583	-.519	.278	.513	.197	.317	-.254
16	-.595	.094	.358	.521	.389	.395	-.224
17	-.534	.025	.278	.405	.347	.258	-.223
18	-.610	-.075	.208	.332	.259	.221	-.118
19	-.904	-.395	-.048	-.015	-.082	.212	-.241
20	-1.615	-1.064	-.732	-.492	-.446	-.194	-.380
21	-2.015	-1.349	-.864	-.399	-.315	-.306	-.350
22	-2.550	-1.603	-1.066	-.451	-.357	-.446	-.481
23	-1.810	-.824	-.634	-.245	-.286	-.347	-.355
24	-.554	-.121	-.139	-.275	-.253	-.267	-.278
25	1.032	1.045	.759	-.042	-.050	-.043	-.121
26	.674	1.133	1.048	-.234	*000.000	-.216	.213
27	-.020	.595	.734	1.051	1.047	.032	.046
28	-.124	.267	.374	.838	.679	.126	.075
29	-.194	.294	.406	.618	.412	.258	.136
30	.857	1.025	1.017	.999	.905	.794	0.
31	.230	.628	.655	.724	.542	.635	-.002
32	.044	.415	.527	.548	.432	.394	.210
33	-.025	.296	.359	.373	.256	.224	.001

Table 6.4 Continued.

(b) $C_{T,S} = 0.80$, $q_s = 20.01$

$\alpha = 65°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.257	-.283	-1.085	-.022	-.041	.001	-.051
2	-.953	-1.511	-1.928	-.044	-.060	-.032	-.017
3	-1.409	-1.940	-2.191	-.072	-.057	-.046	-.069
4	-1.800	-2.232	-2.076	-.070	-.094	-.033	-.054
5	-1.925	-2.163	-1.867	-.028	-.038	-.007	-.039
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.496	-1.596	-1.244	-.616	-.912	-.208	-.328
11	-1.318	-1.458	*000.000	-.473	-.943	-.148	-.201
12	-1.006	-1.022	-.651	-.286	-.596	-.172	-.249
13	-1.256	-.936	-.537	-.586	-.610	-.274	-.305
14	-1.483	-.929	-.537	-.421	-.373	-.154	-.222
15	-.600	-.478	.326	.463	.100	.353	-.114
16	-.720	.043	.322	.372	.253	.348	-.160
17	-.785	-.007	.367	.391	.267	.320	-.178
18	-.526	.028	.269	.314	.222	.236	-.119
19	-.434	-.414	-.085	.048	-.005	.227	-.185
20	-1.694	-1.072	-.600	-.513	-.414	-.218	-.351
21	-1.976	-1.344	-.894	-.369	-.470	-.398	-.420
22	-2.316	-1.466	-.906	-.468	-.379	-.284	-.416
23	-1.197	-.796	-.545	-.241	-.377	-.318	-.333
24	-.587	-.070	-.059	-.253	-.185	-.210	-.264
25	1.030	1.061	.437	-.050	-.043	-.012	-.042
26	.753	1.247	1.128	-.261	*000.000	-.184	.250
27	0.	.691	.853	1.104	.945	-.111	.036
28	-.153	.240	.420	.811	.598	.187	.138
29	-.177	.267	.393	.526	.342	.232	.195
30	.885	1.071	1.063	1.036	.922	.686	.116
31	.213	.883	.712	.621	.437	.560	.136
32	.050	.435	.585	.635	.278	.326	.172
33	-.058	.297	.341	.326	.157	.209	.046

$\alpha = 70°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.005	-.446	-1.404	-.047	-.072	-.078	-.016
2	-1.359	-1.635	-1.873	-.069	-.050	-.031	-.002
3	-1.630	-2.030	-2.022	-.065	-.017	-.020	.045
4	-2.172	-2.414	-2.279	-.101	-.069	-.065	.049
5	-2.211	-2.328	-1.909	-.117	-.082	-.050	.017
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.766	-1.790	-1.431	-.838	-.954	-.188	-.156
11	-1.554	-1.555	*000.000	-.617	-.965	-.172	-.148
12	-1.126	-1.179	-.713	-.285	-.617	-.193	-.179
13	-1.251	-.980	-.572	-.558	-.424	-.233	-.195
14	-1.479	-.923	-.524	-.339	-.309	-.229	-.197
15	-.683	-.472	.277	.367	.177	.339	-.056
16	-.743	.027	.304	.256	.232	.232	-.091
17	-.720	-.023	.287	.335	.220	.233	-.070
18	-.684	-.041	.221	.177	.191	.171	-.119
19	-.802	-.362	-.146	-.066	-.133	.196	-.189
20	-1.485	-.969	-.565	-.470	-.362	-.292	-.284
21	-2.072	-1.481	-1.010	-.412	-.407	-.329	-.282
22	-2.070	-1.363	-.844	-.389	-.274	-.280	-.271
23	-1.111	-.771	-.607	-.325	-.394	-.258	-.268
24	-.384	-.171	-.219	-.240	-.216	-.199	-.170
25	.874	.944	.208	-.064	-.057	-.042	-.044
26	.708	1.170	1.076	-.289	*000.000	-.219	.204
27	-.051	.666	.830	1.006	.780	-.274	.030
28	-.200	.253	.333	.766	.429	.038	.189
29	-.239	.247	.345	.504	.261	.212	.217
30	.656	1.068	1.097	.985	.815	.573	.056
31	.249	.677	.703	.547	.379	.509	.071
32	.056	.421	.563	.439	.304	.343	.264
33	-.050	.243	.317	.270	.216	.221	.076

$\alpha = 75°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.178	-.807	-1.395	-.052	-.039	-.060	-.078
2	-1.531	-1.710	-1.867	-.025	.029	-.057	-.065
3	-1.858	-2.128	-2.014	-.013	-.034	-.083	-.089
4	-2.190	-2.223	-1.904	-.014	.002	-.025	-.050
5	-2.318	-2.347	-1.849	-.049	-.012	-.049	-.096
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.887	-1.661	-1.178	-.576	-.511	-.242	-.331
11	-1.559	-1.453	*000.000	-.434	-.683	-.172	-.200
12	-.923	-1.063	-.558	-.108	-.528	-.241	-.329
13	-1.207	-.856	-.477	-.306	-.190	-.296	-.339
14	-1.243	-.786	-.490	-.286	-.304	-.326	-.311
15	-.629	-.474	.169	.290	.209	.288	-.141
16	-.599	.100	.351	.219	.259	.171	-.101
17	-.676	-.015	.311	.211	.218	.164	-.140
18	-.635	.021	.367	.206	.192	.112	-.117
19	-.762	-.339	-.132	-.068	-.002	.087	-.224
20	-1.493	-.939	-.593	-.363	-.259	-.292	-.324
21	-1.710	-1.127	-.841	-.329	-.296	-.392	-.386
22	-1.701	-1.211	-.817	-.382	-.235	-.307	-.295
23	-.913	-.714	-.620	-.286	-.251	-.318	-.344
24	-.383	-.135	-.222	-.214	-.207	-.245	-.240
25	.766	.888	.303	-.059	-.002	-.052	-.064
26	.690	1.150	1.043	-.183	*000.000	-.211	.223
27	.043	.716	.876	1.043	.852	-.283	-.010
28	-.142	.307	.398	.772	.375	.114	.080
29	-.274	.234	.354	.507	.267	.176	.140
30	.540	.992	1.033	.868	.629	.431	-.007
31	.178	.690	.692	.444	.333	.294	-.010
32	.032	.392	.527	.350	.317	.313	.121
33	.025	.316	.358	.310	.253	.224	.057

Table 6. - Continued.

(c) $C_{T,S} = 0.60$, $q_S = 22.08$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.095	1.138	.854	-.038	-.049	-.050	-.004
2	.900	1.027	.645	-.065	-.064	-.057	-.034
3	.688	.827	.565	-.008	-.024	-.009	-.036
4	.301	.386	.233	-.052	-.026	-.029	-.070
5	-.111	-.061	-.106	-.064	-.060	-.067	-.064
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.427	-.521	-.864	-1.344	-1.243	-.935	-.788
11	-.577	-.791	*000.000	-.893	-1.238	-.883	-.807
12	-.869	-.599	-.809	-.329	-.879	-.637	-.570
13	-.366	-.557	-.497	-.514	-.653	-.487	-.443
14	-.319	-.465	-.427	-.455	-.578	-.480	-.355
15	-.198	.029	.311	.264	.120	.121	-.325
16	.175	.172	.261	.341	.273	.291	-.136
17	.176	.130	.244	.350	.291	.340	-.049
18	.191	.102	.177	.246	.207	.173	-.056
19	.046	-.061	0.	-.036	-.090	.226	-.071
20	-.480	-.536	-.421	-.653	-.707	-.596	-.363
21	-.794	-.837	-.749	-.832	-1.002	-.781	-.561
22	-.804	-.783	-.766	-.775	-.869	-.782	-.529
23	-.496	-.172	-.284	-.229	-.300	-.365	-.381
24	-.263	.045	.027	.142	.121	.074	-.095
25	.343	.179	-.059	-.055	-.043	-.041	-.030
26	-.425	-.642	-.450	.160	*000.000	.179	.388
27	-.623	-.513	-.423	.178	.382	.194	.169
28	-.290	-.253	.017	.205	.196	.134	.096
29	-.045	.143	.236	.198	.313	.310	.242
30	1.006	1.047	.457	1.035	1.102	1.076	.942
31	.407	.564	.388	.698	.694	.669	.608
32	.179	.375	.444	.688	.540	.490	.509
33	.046	.270	.330	.337	.361	.318	-.031

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.232	1.286	.637	-.070	-.063	-.037	-.086
2	.784	.875	.477	-.052	-.063	-.064	-.060
3	.452	.505	.187	-.071	-.083	-.072	-.072
4	.059	-.009	-.261	-.057	-.058	-.055	-.084
5	-.307	-.493	-.609	-.056	-.059	-.049	-.059
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.576	-.799	-.911	-1.514	-1.567	-1.226	-1.014
11	-.692	-1.019	*000.000	-1.089	-1.495	-1.115	-1.048
12	-1.028	-.716	-.729	-.408	-.968	-.757	-.698
13	-.409	-.607	-.582	-.520	-.675	-.594	-.545
14	-.400	-.526	-.508	-.507	-.613	-.516	-.444
15	-.318	-.116	.328	.316	.174	.143	-.359
16	.137	.087	.350	.449	.283	.277	-.142
17	.177	.123	.260	.364	.293	.318	-.087
18	.152	.118	.190	.282	.219	.175	-.073
19	-.026	-.101	-.009	-.005	-.120	.157	-.148
20	-.577	-.583	-.485	-.572	-.672	-.638	-.438
21	-.908	-.871	-.747	-.734	-.897	-.805	-.548
22	-.984	-.890	-.832	-.708	-.842	-.819	-.623
23	-.705	-.307	-.255	-.219	-.313	-.397	-.423
24	-.378	.047	.052	.099	.088	.036	-.163
25	.705	.700	.286	-.033	-.046	-.047	-.068
26	.080	.003	.230	.118	*000.000	.103	.288
27	-.331	-.268	-.005	.622	.674	.498	.347
28	-.180	-.131	.135	.460	.380	.276	.152
29	-.006	.180	.318	.468	.385	.362	.261
30	1.022	1.042	.502	.980	1.067	1.050	.869
31	.428	.551	.443	.716	.653	.654	.536
32	.236	.399	.447	.582	.535	.479	.485
33	.063	.315	.325	.408	.386	.316	-.074

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.128	1.154	.280	-.051	-.074	-.035	-.030
2	.501	.505	-.118	-.028	-.044	-.028	-.015
3	.214	.174	-.301	-.037	-.062	-.021	-.031
4	-.147	-.300	-.528	-.037	-.049	-.051	-.037
5	-.540	-.730	-.774	-.052	-.079	-.056	-.038
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.712	-.972	-1.048	-1.816	-1.975	-1.556	-1.351
11	-.786	-1.119	*000.000	-1.111	-1.611	-1.267	-1.170
12	-1.102	-.798	-.777	-.493	-1.047	-.833	-.784
13	-.522	-.683	-.625	-.526	-.762	-.667	-.586
14	-.530	-.572	-.514	-.488	-.648	-.541	-.458
15	-.345	-.226	.398	.400	.198	.270	-.454
16	.027	.064	.344	.411	.271	.322	-.318
17	.071	.068	.291	.364	.260	.334	-.259
18	.079	.086	.249	.298	.212	.202	-.184
19	-.096	-.154	-.028	-.052	-.175	.198	-.166
20	-.836	-.744	-.590	-.707	-.827	-.760	-.488
21	-1.215	-1.062	-.914	-.740	-1.010	-.899	-.619
22	-1.351	-1.053	-.896	-.678	-.909	-.889	-.687
23	-1.049	-.429	-.368	-.253	-.346	-.422	-.565
24	-.483	.056	.097	.094	.082	.029	-.131
25	.995	1.061	.578	-.036	-.072	-.052	-.014
26	.349	.319	.478	.047	*000.000	.036	.176
27	-.194	-.112	.114	.702	.801	.694	.477
28	-.141	-.015	.234	.638	.556	.446	.310
29	-.011	.260	.363	.626	.468	.436	.369
30	.959	1.015	.674	.947	.992	.999	.875
31	.444	.610	.539	.758	.706	.710	.592
32	.236	.425	.443	.584	.543	.466	.526
33	.035	.343	.346	.449	.395	.337	-.056

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.942	.934	-.060	-.051	-.066	-.074	-.074
2	.171	.055	-.641	-.053	-.057	-.058	-.024
3	-.213	-.315	-.777	-.063	-.063	-.084	-.059
4	-.576	-.723	-1.022	-.054	-.040	-.077	-.060
5	-.873	-1.165	-1.233	-.033	-.037	-.050	-.038
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.857	-1.188	-1.246	-2.099	-2.207	-1.802	-1.581
11	-.905	-1.301	*000.000	-1.246	-1.754	-1.436	-1.325
12	-1.263	-.899	-.838	-.489	-1.129	-.967	-.869
13	-.621	-.728	-.659	-.543	-.747	-.689	-.635
14	-.800	-.710	-.599	-.548	-.690	-.643	-.538
15	-.335	-.296	.341	.474	.312	.280	-.414
16	.046	.092	.377	.460	.363	.296	-.316
17	-.073	.068	.322	.401	.306	.313	-.144
18	-.012	.058	.252	.314	.177	.124	-.257
19	-.252	-.213	-.068	-.104	-.186	.134	-.213
20	-.988	-.807	-.654	-.680	-.750	-.761	-.618
21	-1.557	-1.222	-.999	-.744	-.890	-.853	-.644
22	-1.669	-1.175	-.935	-.671	-.879	-.912	-.697
23	-1.383	-.526	-.346	-.284	-.324	-.451	-.607
24	-.493	.058	.120	.053	.089	.010	-.131
25	1.140	1.175	.548	-.077	-.070	-.075	-.057
26	.621	.813	.736	-.008	*000.000	-.071	.073
27	.046	.269	.511	.940	1.043	.917	.591
28	-.051	.119	.310	.756	.690	.541	.409
29	.011	.298	.469	.563	.542	.469	.373
30	.946	1.048	.909	.965	.989	.988	.811
31	.423	.633	.584	.766	.730	.716	.614
32	.219	.489	.584	.661	.594	.536	.579
33	.018	.345	.390	.445	.419	.352	-.007

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.840	.450	-.553	-.059	-.078	-.074	-.007
2	-.277	-.676	-1.503	-.059	-.064	-.076	-.066
3	-.620	-1.106	-1.676	-.054	-.060	-.038	-.036
4	-.976	-1.447	-1.791	-.039	-.052	-.061	-.065
5	-1.216	-1.732	-1.752	-.051	-.048	-.081	-.087
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.136	-1.623	-1.716	-2.730	-2.811	-2.202	-1.934
11	-.900	-1.363	*000.000	-1.287	-1.774	-1.419	-1.314
12	-1.298	-.929	-.903	-.494	-1.088	-.918	-.797
13	-.815	-.867	-.768	-.663	-.824	-.679	-.598
14	-.929	-.750	-.633	-.593	-.724	-.634	-.510
15	-.366	-.318	.371	.533	.331	.289	-.564
16	-.253	.046	.395	.468	.358	.330	-.221
17	-.266	.089	.355	.378	.298	.297	-.285
18	-.235	.038	.263	.238	.153	.136	-.192
19	-.447	-.296	-.196	-.126	-.257	.179	-.233
20	-1.215	-.926	-.674	-.750	-.813	-.837	-.642
21	-1.890	-1.369	-1.165	-.872	-.966	-.862	-.684
22	-2.066	-1.288	-1.082	-.741	-.801	-.827	-.619
23	-1.547	-.572	-.391	-.274	-.288	-.434	-.479
24	-.618	.030	.144	.040	.027	-.006	-.210
25	1.187	1.252	.382	-.067	-.059	-.067	-.005
26	.933	1.180	.963	-.053	*000.000	-.079	.128
27	.239	.529	.732	1.031	1.122	.978	.518
28	.073	.292	.432	.855	.780	.593	.348
29	.012	.327	.453	.637	.561	.436	.346
30	1.006	1.145	1.085	1.014	1.043	1.009	.687
31	.476	.723	.682	.906	.759	.765	.606
32	.254	.537	.564	.671	.630	.539	.459
33	.044	.380	.434	.490	.424	.318	-.029

Table 6. - Continued.

(c) $C_{T,S} = 0.60$, $q_S = 22.08$

$\alpha = 30°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.409	-.033	-1.049	-.093	-.100	-.064	-.136
2	-.823	-1.422	-2.172	-.077	-.111	-.096	-.066
3	-.939	-1.600	-2.306	-.093	-.110	-.065	-.119
4	-1.439	-2.047	-2.296	-.096	-.096	-.021	-.156
5	-1.429	-2.045	-2.015	-.051	-.068	-.056	-.136
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.196	-1.706	-1.650	-2.653	-2.678	-1.706	-1.457
11	-1.153	-1.677	.000.000	-1.500	-1.960	-1.291	-1.166
12	-1.455	-1.982	-.888	-.568	-1.171	-.698	-.581
13	-.874	-.971	-.653	-.656	-.773	-.431	-.485
14	-1.198	-.901	-.574	-.676	-.786	-.538	-.587
15	-.435	-.486	.506	.568	.331	.354	-.545
16	-.361	.054	.459	.449	.305	.325	-.301
17	-.450	.042	.434	.337	.294	.386	-.276
18	-.478	-.019	.141	.239	.128	.161	-.235
19	-.640	-.353	-.070	-.160	-.300	.162	-.249
20	-1.510	-1.084	-.879	-.840	-.819	-.758	-.617
21	-2.195	-1.523	-1.142	-.938	-1.056	-.864	-.631
22	-2.511	-1.479	-1.202	-.914	-.830	-.917	-.889
23	-1.870	-.731	-.495	-.376	-.403	-.567	-.810
24	-.733	-.092	.135	-.046	-.029	-.188	-.416
25	1.254	1.213	.259	-.080	-.101	-.075	-.167
26	1.824	1.284	1.153	-.094	.000.000	-.127	.038
27	.376	.692	.809	1.049	1.149	1.062	.293
28	.104	.328	.469	.898	.828	.613	.243
29	-.004	.374	.442	.693	.625	.522	.303
30	.698	1.139	1.268	1.052	1.055	1.059	.391
31	.447	.748	.850	.781	.713	.758	.478
32	.213	.540	.755	.725	.635	.575	.416
33	.014	.342	.567	.606	.393	.311	-.056

$\alpha = 35°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.220	-.112	-1.362	-.038	-.022	-.092	-.038
2	-.941	-1.481	-2.248	-.052	-.023	-.095	-.049
3	-1.217	-1.758	-2.136	-.035	-.051	-.056	-.065
4	-1.588	-2.073	-2.181	-.048	-.044	-.027	-.065
5	-1.652	-2.104	-1.777	-.013	-.006	-.056	-.026
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.242	-1.538	-1.258	-.570	-.565	-1.703	-1.281
11	-1.144	-1.479	.000.000	-.981	-.733	-1.264	-.950
12	-1.112	-1.612	-.743	-.528	-.773	-.625	-.523
13	-.472	-.937	-.770	-.887	-.706	-.646	-.441
14	-1.217	-.918	-.781	-.755	-.711	-.528	-.436
15	-.492	-.376	.320	.515	.302	.272	-.388
16	-.541	.085	.261	.415	.310	.287	-.174
17	-.558	.077	.276	.338	.233	.366	-.092
18	-.536	.024	.182	.215	.144	.166	-.091
19	-.724	-.362	-.355	-.238	-.393	.136	-.181
20	-1.534	-1.051	-.874	-.848	-.817	-.766	-.502
21	-2.204	-1.517	-1.145	-.892	-1.468	-1.081	-.681
22	-2.643	-1.631	-1.193	-1.099	-1.044	-1.076	-.754
23	-1.436	-.729	-.475	-.430	-.521	-.476	-.510
24	-.719	-.056	-.339	-.404	-.499	-.223	-.389
25	1.223	1.209	.268	-.056	-.031	-.039	-.007
26	1.862	1.283	1.024	-.091	.000.000	-.126	.019
27	.358	.691	.796	1.009	1.057	.903	.340
28	.090	.395	.520	.914	.840	.559	.321
29	-.016	.419	.531	.728	.615	.541	.406
30	.691	1.146	1.176	1.043	1.062	1.078	.639
31	.387	.747	.770	.790	.731	.734	.380
32	.192	.556	.641	.631	.564	.504	.405
33	.006	.402	.411	.374	.312	.294	-.033

$\alpha = 40°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	-.207	-.851	-2.191	-.053	-.045	-.044	-.055
2	-1.508	-2.145	-2.938	-.038	-.061	-.034	-.129
3	-1.718	-2.390	-2.789	-.017	-.050	-.026	-.078
4	-2.071	-2.842	-2.753	-.069	-.065	-.057	-.130
5	-1.908	-2.459	-2.180	-.037	-.059	-.044	-.077
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.471	-1.880	-1.588	-.711	-.767	-1.613	-1.238
11	-1.182	-1.501	.000.000	-.836	-.735	-.589	-.728
12	-1.083	-1.032	-.938	-.659	-.921	-.348	-.444
13	-1.055	-.908	-.678	-.582	-.650	-.537	-.489
14	-1.433	-.988	-.703	-.723	-.896	-.573	-.467
15	-.579	-.411	.347	.525	.279	.332	-.436
16	-.830	.072	.297	.414	.228	.368	-.221
17	-.754	.071	.276	.398	.219	.313	-.219
18	-.688	-.006	.122	.211	.093	.204	-.190
19	-.916	-.421	-.268	-.266	-.430	.147	-.250
20	-1.754	-1.121	-1.096	-.819	-.820	-.665	-.561
21	-2.449	-1.495	-1.045	-.874	-1.028	-.756	-.535
22	-2.861	-1.598	-.931	-.895	-.919	-.678	-.717
23	-2.116	-.921	-.756	-.583	-.438	-.401	-.434
24	-.760	-.146	-.480	-.426	-.423	-.330	-.426
25	.988	.860	-.220	-.061	-.053	-.061	-.096
26	1.854	1.283	1.026	-.069	.000.000	-.133	.027
27	.486	.891	1.002	1.071	1.105	.830	.287
28	.125	.473	.566	.930	.844	.455	.320
29	-.047	.391	.508	.670	.532	.421	.320
30	.774	1.174	1.125	1.086	1.035	1.044	.275
31	.469	.767	.778	.775	.721	.717	.246
32	.147	.532	.609	.575	.505	.418	.266
33	-.008	.359	.340	.380	.291	.216	-.094

$\alpha = 45°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	-.571	-1.257	-2.316	-.057	-.063	-.062	-.046
2	-1.946	-2.823	-3.417	-.065	-.055	-.050	-.088
3	-2.126	-2.879	-3.224	-.037	-.045	-.045	-.049
4	-2.343	-2.989	-2.944	-.061	-.035	-.034	-.073
5	-2.089	-2.607	-2.209	-.051	-.039	-.039	-.051
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.532	-1.747	-1.301	-.563	-.714	-.519	-.472
11	-1.353	-1.610	.000.000	-.662	-1.001	-.398	-.383
12	-1.012	-1.084	-.739	-.473	-.842	-.318	-.409
13	-1.149	-.940	-.663	-.661	-.602	-.296	-.473
14	-1.405	-.862	-.599	-.597	-.598	-.291	-.444
15	-.740	-.372	.359	.584	.295	.353	-.370
16	-.920	.145	.347	.455	.312	.393	-.171
17	-.828	.051	.266	.380	.305	.298	-.110
18	-.844	-.002	.198	.268	.201	.186	-.189
19	-.894	-.356	-.310	-.059	-.162	.221	-.265
20	-1.651	-1.030	-.700	-.666	-.588	-.376	-.488
21	-2.664	-1.565	-.943	-.855	-.586	-.409	-.554
22	-2.707	-1.434	-.828	-.594	-.507	-.455	-.610
23	-1.743	-.784	-.521	-.477	-.459	-.450	-.499
24	-.753	-.284	-.547	-.451	-.446	-.379	-.397
25	.883	.641	-.325	-.073	-.053	-.045	-.075
26	1.179	1.351	1.205	-.115	.000.000	-.150	.008
27	.556	1.014	1.133	1.126	1.136	.697	.306
28	.160	.579	.678	.986	.875	.374	.306
29	-.096	.441	.561	.715	.544	.436	.304
30	.729	1.174	1.211	1.123	1.056	1.106	.237
31	.337	.790	.807	.770	.694	.672	.306
32	.116	.524	.524	.585	.514	.425	.358
33	.012	.317	.301	.333	.253	.226	-.029

Table 6.- Concluded.

(d) $C_{T,s} = 0.30$, $q_s = 19.60$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.961	1.046	.607	-.098	-.096	-.155	-.034
2	.732	.790	.370	-.031	-.057	-.046	.019
3	.494	.531	.214	-.070	-.074	-.120	-.011
4	.462	-.039	-.366	-.045	-.065	-.108	.012
5	-.371	-.537	-.796	-.057	-.088	-.200	.029
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-.542	-.880	-1.178	-1.562	-1.348	-1.256	-1.018
11	-.777	-1.062	.000,000	-1.129	-1.436	-1.298	-1.108
12	-1.242	-.848	-.855	-.467	-1.086	-.976	-.827
13	-.562	-.755	-.728	-.684	-.877	-.865	-.633
14	-.523	-.621	-.546	-.580	-.745	-.645	-.458
15	-.380	.263	.208	.176	.025	.024	-.499
16	.081	.064	.206	.328	.165	.053	-.149
17	.124	.092	.193	.354	.205	.135	-.021
18	.119	.080	.075	.298	.143	.029	-.049
19	-.066	-.141	-.107	-.041	-.215	.011	-.164
20	-.617	-.662	-.485	-.660	-.780	-.821	-.516
21	-.983	-.963	-.797	-.847	-1.063	-.940	-.609
22	-1.161	-1.010	-.776	-.842	-1.046	-.967	-.604
23	-.860	-.367	-.116	-.294	-.373	-.513	-.375
24	-.464	-.014	-.052	.073	.005	-.112	-.085
25	.690	.669	.463	-.036	-.049	-.117	-.014
26	-.139	-.280	-.090	.332	.000,000	.227	.464
27	-.534	-.504	-.477	-.081	.230	.201	.276
28	-.326	-.319	-.166	-.013	.039	-.004	.106
29	-.078	.122	.221	.274	.238	.197	.302
30	.975	1.049	.442	1.057	1.021	.881	1.016
31	.366	.515	.330	.616	.577	.528	.529
32	.172	.338	.324	.505	.432	.338	.523
33	.010	.266	.251	.343	.303	.247	.148

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.957	.996	.270	-.074	-.041	-.086	.013
2	.698	.672	-.517	-.079	-.100	-.096	.012
3	.024	-.140	-.785	-.079	-.076	-.063	-.014
4	-.408	-.672	-1.144	-.077	-.091	-.084	.026
5	-.774	-1.130	-1.467	-.056	-.061	-.062	-.040
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-.939	-1.375	-1.745	-2.139	-2.016	-1.824	-1.585
11	-.930	-1.334	.000,000	-1.328	-1.426	-1.551	-1.294
12	-1.467	-.958	-.977	-.510	-1.189	-1.071	-1.028
13	-.811	-.794	-.719	-.659	-.837	-.783	-.569
14	-.676	-.706	-.663	-.639	-.777	-.745	-.672
15	-.449	.145	.144	.256	.087	.043	-.524
16	-.093	-.008	.158	.318	.196	.151	-.103
17	-.058	-.010	.124	.286	.191	.150	.015
18	0.	.030	.130	.231	.110	.082	.012
19	-.226	-.296	-.144	-.086	-.244	.050	-.170
20	-.925	-.826	-.640	-.745	-.857	-.778	-.653
21	-1.354	-1.133	-.911	-.838	-1.067	-.946	-.660
22	-1.615	-1.161	-.968	-.864	-1.029	-.966	-.701
23	-1.287	-.471	-.194	-.273	-.345	-.412	-.411
24	-.586	-.039	-.045	.060	.026	-.091	-.106
25	.478	1.093	.677	-.070	-.057	-.052	.049
26	.365	.462	.571	.280	.000,000	.159	.455
27	-.166	-.042	.108	.239	.605	.485	.515
28	-.198	-.084	.120	.308	.491	.253	.292
29	-.072	.164	.308	.368	.333	.314	.450
30	.975	1.104	.674	1.076	1.051	1.010	1.141
31	.366	.530	.414	.652	.595	.554	.691
32	.185	.377	.386	.674	.488	.385	.549
33	-.010	.294	.332	.588	.379	.303	.041

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.666	.652	-.481	-.041	-.066	-.041	-.028
2	-.251	-.577	-1.586	-.030	-.042	-.029	-.048
3	-.451	-.745	-1.450	-.053	-.070	-.060	-.147
4	-.925	-1.367	-1.967	-.071	-.070	-.075	-.088
5	-1.244	-1.460	-2.212	-.054	-.075	-.055	-.068
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-1.024	-1.489	-1.820	-2.234	-2.158	-1.922	-1.828
11	-1.147	-1.630	.000,000	-1.498	-2.036	-1.845	-1.880
12	-1.609	-1.044	-1.028	-.531	-1.233	-1.144	-1.188
13	-.807	-.910	-.845	-.721	-.932	-.885	-.904
14	-.933	-.842	-.756	-.654	-.814	-.780	-.725
15	-.374	.092	.260	.342	.147	.209	-.571
16	-.225	.043	.297	.435	.230	.237	-.222
17	-.231	.026	.237	.347	.199	.246	-.243
18	-.236	-.005	.129	.275	.091	.087	-.233
19	-.357	-.268	-.139	-.128	-.283	.079	-.240
20	-1.222	-.988	-.730	-.793	-.917	-.911	-.779
21	-1.714	-1.275	-1.096	-.873	-1.027	-.957	-.788
22	-2.039	-1.273	-1.098	-.858	-.963	-.943	-.911
23	-1.752	-.578	-.350	-.274	-.342	-.388	-.603
24	-.778	-.034	.044	.074	.055	-.067	-.220
25	1.130	1.293	.497	-.064	-.075	-.049	-.080
26	.707	.896	.739	.212	.000,000	.137	.283
27	.121	.295	.408	.749	.848	.783	.702
28	-.038	.110	.240	.574	.573	.513	.496
29	-.040	.248	.389	.488	.431	.440	.325
30	.908	1.125	.804	1.037	.971	.995	1.010
31	.407	.629	.516	.755	.648	.629	.549
32	.181	.444	.406	.760	.525	.495	.525
33	-.038	.320	.346	.437	.364	.305	-.020

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.298	.010	-1.425	-.061	-.077	-.054	-.078
2	-.904	-1.454	-2.774	-.055	-.083	-.063	-.099
3	-1.218	-1.905	-2.925	-.079	-.096	-.073	-.089
4	-1.582	-2.243	-2.964	-.064	-.106	-.063	-.111
5	-1.670	-2.375	-2.759	-.052	-.077	-.051	-.061
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-1.414	-2.016	-2.354	-2.741	-2.908	-2.588	-2.536
11	-1.152	-1.596	.000,000	-1.471	-1.976	-1.757	-1.747
12	-1.460	-1.227	-1.130	-.639	-1.340	-1.277	-1.276
13	-1.028	-1.006	-.912	-.816	-.983	-.983	-1.020
14	-1.055	-.823	-.690	-.657	-.780	-.745	-.728
15	-.444	0.	.378	.472	.256	.290	-.598
16	-.340	.124	.393	.456	.266	.306	-.228
17	-.306	.037	.278	.343	.192	.249	-.227
18	-.298	.010	.209	.249	.090	.060	-.222
19	-.742	-.609	-.209	-.220	-.415	.030	-.442
20	-1.625	-1.139	-.861	-.876	-.993	-1.010	-.970
21	-2.324	-1.518	-1.244	-.957	-1.048	-1.032	-.941
22	-2.601	-1.423	-1.148	-.817	-.736	-.910	-.899
23	-2.170	-.651	-.425	-.294	-.301	-.392	-.533
24	-1.003	0.	.062	.034	-.016	-.026	-.183
25	1.144	1.247	-.141	-.096	-.119	-.073	-.110
26	.998	1.245	.840	.145	.000,000	.078	.222
27	.504	.865	.719	.928	.979	.916	.795
28	.101	.332	.491	.738	.693	.636	.514
29	-.038	.364	.510	.621	.550	.545	.498
30	.823	1.178	.931	1.038	.968	.958	1.004
31	.392	.756	.679	.809	.697	.699	.666
32	.186	.550	.543	.630	.550	.495	.563
33	-.030	.375	.428	.474	.390	.371	.095

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.082	-.326	-1.694	-.109	-.082	-.057	-.061
2	-1.321	-1.792	-2.866	-.088	-.056	-.035	-.029
3	-1.472	-1.944	-2.516	-.063	-.070	-.047	-.050
4	-1.996	-2.862	-3.395	-.122	-.090	-.081	-.040
5	-1.937	-2.832	-2.645	-.124	-.109	-.065	-.075
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-1.503	-2.018	-1.956	-1.011	-.737	-2.429	-2.358
11	-1.166	-1.573	.000,000	-.853	-1.053	-1.939	-1.930
12	-1.218	-1.665	-.758	-.548	-.641	-1.299	-1.259
13	-1.050	-1.012	-.825	-.643	-.750	-1.006	-.988
14	-1.209	-.931	-.855	-.767	-.838	-.871	-.843
15	-.488	-.048	.274	.393	.245	.267	-.521
16	-.700	.031	.147	.264	.202	.198	-.369
17	-.705	.023	.181	.249	.101	.196	-.276
18	-.619	.022	.118	-.029	-.145	-.088	-.324
19	-.801	-.388	-.364	-.446	-.425	.013	-.427
20	-1.653	-1.131	-.915	-.819	-.869	-.923	-1.052
21	-2.249	-1.538	-1.269	-.998	-.928	-1.151	-1.077
22	-2.417	-1.568	-1.247	-.923	-1.066	-1.270	-1.162
23	-2.255	-.780	-.521	-.569	-.527	-.539	-.775
24	-.906	-.118	-.341	-.488	-.387	-.496	-.630
25	.984	1.113	-.113	-.066	-.075	-.048	-.077
26	1.101	1.326	.874	-.103	.000,000	.043	.217
27	.561	.830	.841	1.031	1.057	1.039	.915
28	.159	.411	.530	.800	.716	.698	.601
29	-.020	.399	.457	.596	.528	.542	.514
30	.810	1.114	.996	.967	.901	.865	.913
31	.388	.738	.621	.713	.620	.612	.613
32	.195	.498	.521	.640	.414	.373	.433
33	-.002	.345	.362	.285	.228	.266	-.003

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.558	-.978	-2.287	.011	-.039	-.078	-.055
2	-1.841	-2.439	-3.275	-.005	-.069	-.070	-.050
3	-2.197	-2.938	-3.506	-.094	-.041	-.083	-.044
4	-2.238	-2.891	-3.108	.005	-.039	-.053	-.039
5	-2.195	-2.901	-2.680	.002	-.021	-.051	-.026
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-1.497	-1.882	-1.558	-.544	-.536	-2.371	-2.301
11	-1.195	-1.557	.000,000	-.499	-.596	-1.813	-1.826
12	-.842	-.889	-.549	-.332	-.578	-1.266	-1.228
13	-1.111	-1.017	-.887	-.667	-.684	-1.137	-1.088
14	-1.243	-.855	-.731	-.557	-.639	-.936	-.981
15	-.543	-.017	.255	.440	.286	.378	-.624
16	-.781	.199	.351	.421	.327	.272	-.299
17	-.894	.091	.255	.386	.169	.170	-.277
18	-.726	.028	.118	.234	.095	-.014	-.298
19	-.839	-.309	-.254	-.066	-.368	.015	-.477
20	-1.738	-1.136	-.968	-.850	-.749	-.950	-1.006
21	-2.607	-1.528	-.963	-.728	-.734	-1.079	-1.083
22	-3.008	-1.601	-1.096	-.626	-.599	-1.060	-1.125
23	-2.321	-.880	-.823	-.410	-.555	-.599	-.732
24	-.900	-.146	-.600	-.541	-.587	-.509	-.451
25	.904	.935	-.842	-.028	-.020	-.039	-.024
26	1.144	1.305	.886	-.060	.000,000	.022	.217
27	.674	.961	.964	1.097	1.079	.997	.756
28	.214	.541	.637	.938	.789	.722	.635
29	-.038	.407	.499	.615	.539	.497	.484
30	.760	1.183	1.202	1.045	.889	.805	.932
31	.425	.820	.799	.810	.683	.631	.616
32	.214	.571	.615	.765	.518	.456	.511
33	.049	.381	.332	.283	.281	.232	-.053

Table 7.- Pressure coefficients for wing with propeller rotation down at tip, basic leading edge, fences on, $\delta_f = 40°$.

(a) $C_{T,S} = 0.90$, $q_s = 20.21$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.939	.844	-.041	-.008	-.029	-.030	-.096
2	1.027	1.223	.915	-.058	-.031	-.054	-.088
3	.879	1.178	1.021	-.061	-.010	-.058	-.097
4	.584	.983	.992	-.059	-.032	-.053	-.096
5	.172	.445	.591	-.078	-.029	-.062	-.096
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.149	-.131	-.208	-1.010	-.865	-.569	-.370
11	-.355	-.584	.000.000	-.920	-1.043	-.575	-.397
12	-.540	-.484	-.529	-.359	-.881	-.348	-.353
13	-.221	-.490	-.583	-.545	-.508	-.351	-.272
14	-.299	-.523	-.547	-.683	-.607	-.371	-.361
15	-.082	.184	.362	.372	.431	.491	.111
16	.041	.122	.124	.151	.196	.211	.085
17	-.249	-.408	-.413	-.486	-.592	-.232	-.316
18	-.549	-.893	-.895	-1.128	-1.147	-1.014	-.561
19	-.895	-1.205	-1.391	-1.636	-1.672	-.855	-.716
20	-.975	-1.292	-1.484	-1.720	-1.749	-1.352	-.854
21	-.892	-1.010	-1.162	-1.446	-1.495	-1.074	-.702
22	-.624	-.445	-.744	-.923	-1.016	-.809	-.665
23	-.249	-.150	-.159	-.116	-.156	-.321	-.351
24	-.231	-.083	-.155	-.109	.035	.005	-.116
25	-.088	-.663	-1.663	-.066	-.027	-.069	-.094
26	-.603	-1.522	-1.963	1.138	.000.000	1.194	.286
27	-.727	-.963	-1.080	.584	.498	.106	.310
28	-.201	-.311	-.081	.454	.370	.166	.196
29	-.066	.338	.392	.444	.506	.433	.329
30	.436	.489	.552	.949	1.012	.933	.231
31	.583	.658	.567	.948	1.100	1.053	.767
32	.318	.783	.608	.750	.841	.835	.835
33	.145	.502	.446	.538	.591	.580	.203

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.002	.957	.280	-.054	-.029	-.032	-.091
2	.929	1.105	.873	-.058	-.031	-.056	-.088
3	.836	1.077	1.030	-.088	-.034	-.060	-.097
4	.519	.791	.916	-.059	-.025	-.082	-.096
5	.077	.355	.524	-.056	-.009	-.043	-.060
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.209	-.290	-.243	-1.234	-1.104	-.693	-.429
11	-.363	-.665	.000.000	-.950	-1.102	-.606	-.378
12	-.675	-.571	-.508	-.428	-.759	-.412	-.288
13	-.235	-.552	-.524	-.578	-.570	-.363	-.289
14	-.298	-.532	-.490	-.607	-.622	-.355	-.260
15	-.072	.070	.422	.365	.411	.522	.156
16	.025	.111	.166	.180	.207	.211	.086
17	-.329	-.443	-.302	-.452	-.565	-.259	-.199
18	-.647	-.917	-.829	-1.056	-1.104	-.838	-.570
19	-.963	-1.370	-1.353	-1.610	-1.633	-.957	-.822
20	-.970	-1.461	-1.426	-1.712	-1.669	-1.334	-.857
21	-.917	-1.161	-1.125	-1.414	-1.541	-1.133	-.800
22	-.591	-.593	-.581	-.793	-.944	-.839	-.593
23	-.349	-.139	-.122	-.107	-.127	-.314	-.497
24	-.371	-.125	-.086	-.064	-.031	-.027	-.050
25	-.058	-.308	-1.186	-.026	-.005	-.073	-.084
26	-.458	-1.045	-1.284	.975	.000.000	1.058	.231
27	-.700	-.436	-.804	.885	.662	.334	.475
28	-.214	-.261	.018	.537	.416	.232	.168
29	-.093	.313	.447	.505	.519	.463	.457
30	.598	.563	.592	.958	.976	.884	.352
31	.697	.952	.756	1.021	1.105	1.154	.972
32	.400	.771	.677	.764	.848	.762	.853
33	.199	.479	.510	.525	.611	.553	.290

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.051	1.033	.453	-.056	-.055	-.020	-.025
2	1.001	1.157	.872	-.042	-.048	-.040	-.096
3	.799	1.026	.901	-.036	-.049	-.022	-.002
4	.401	.620	.730	-.041	-.038	-.008	.007
5	.011	.193	.340	-.067	-.048	-.025	-.019
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.262	-.343	-.377	-1.289	-1.248	-.678	-.550
11	-.358	-.662	.000.000	-.982	-1.158	-.573	-.496
12	-.632	-.576	-.607	-.450	-.704	-.358	-.305
13	-.254	-.566	-.533	-.543	-.591	-.334	-.346
14	-.367	-.606	-.591	-.652	-.653	-.383	-.318
15	-.101	.010	.404	.403	.393	.495	.123
16	.007	.102	.152	.148	.143	.251	.123
17	-.329	-.512	-.402	-.474	-.575	-.216	-.294
18	-.710	-1.033	-.873	-1.045	-1.124	-.923	-.634
19	-.958	-1.435	-1.315	-1.551	-1.589	-.968	-.733
20	-1.049	-1.498	-1.315	-1.592	-1.592	-1.260	-.872
21	-.995	-1.305	-1.184	-1.316	-1.459	-1.090	-.867
22	-.733	-.734	-.704	-.871	-.925	-.880	-.690
23	-.418	-.159	-.221	-.107	-.131	-.214	-.523
24	-.420	-.122	-.171	-.151	-.074	-.027	-.041
25	-.202	-.012	-.679	-.067	-.047	-.015	-.093
26	-.310	-.743	-.806	.847	.000.000	.959	.195
27	-.614	-.691	-.708	.895	.734	.404	.419
28	-.151	-.224	-.035	.628	.470	.269	.208
29	-.105	.314	.450	.566	.537	.514	.427
30	.640	.655	.621	.949	.955	.935	.339
31	.724	1.039	.695	.933	1.017	1.116	.835
32	.446	.746	.648	.767	.783	.839	.829
33	.230	.488	.442	.576	.593	.581	.345

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.103	1.174	.711	-.059	-.032	-.055	-.056
2	.912	1.144	.960	-.044	-.052	0.	-.076
3	.706	.909	.907	-.076	-.038	-.025	-.038
4	.312	.576	.712	-.071	-.048	-.034	-.071
5	-.079	.109	.320	-.027	-.026	-.022	-.034
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.293	-.409	-.426	-1.448	-1.370	-.846	-.530
11	-.415	-.726	.000.000	-1.009	-1.232	-.633	-.510
12	-.723	-.589	-.522	-.507	-.792	-.377	-.407
13	-.317	-.570	-.516	-.570	-.603	-.293	-.274
14	-.432	-.623	-.495	-.631	-.638	-.372	-.303
15	-.196	-.032	.512	.397	.420	.486	.084
16	.019	.113	.314	.119	.144	.247	.090
17	-.394	-.576	-.256	-.467	-.602	-.223	-.256
18	-.772	-1.075	-.843	-1.039	-1.086	-.940	-.608
19	-1.041	-1.508	-1.308	-1.477	-1.585	-.849	-.835
20	-1.102	-1.640	-1.393	-1.513	-1.637	-1.183	-.854
21	-1.036	-1.385	-1.146	-1.308	-1.433	-1.157	-.940
22	-.823	-.884	-.707	-.903	-.894	-.933	-.801
23	-.627	-.145	-.106	-.158	-.169	-.299	-.582
24	-.498	-.142	-.068	-.123	-.107	-.083	-.079
25	-.303	-.263	-.438	-.055	-.039	-.026	-.039
26	-.178	-.570	-.666	.785	.000.000	.870	.107
27	-.511	-.496	-.392	.808	.788	.436	.313
28	-.142	-.178	.097	.809	.501	.292	.196
29	-.105	.305	.441	.538	.530	.473	.382
30	.732	.800	.668	.934	.949	.944	.353
31	.869	1.122	.794	.984	1.018	1.140	.809
32	.493	.811	.776	.811	.814	.844	.836
33	.195	.534	.523	.560	.571	.580	.268

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.133	1.209	.779	-.042	-.035	-.041	-.097
2	.747	.956	.825	-.062	-.034	-.053	-.049
3	.565	.775	.756	-.037	-.026	-.011	-.056
4	.207	.357	.446	-.054	-.060	-.049	-.071
5	-.180	-.089	.090	-.050	-.050	-.040	-.044
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.409	-.530	-.583	-1.595	-1.511	-.898	-.619
11	-.485	-.808	.000.000	-1.041	-1.233	-.650	-.516
12	-.773	-.642	-.632	-.500	-.748	-.390	-.387
13	-.397	-.629	-.586	-.541	-.565	-.370	-.331
14	-.510	-.685	-.653	-.593	-.601	-.367	-.319
15	-.238	-.042	.468	.449	.415	.466	.060
16	.058	.057	.119	.177	.177	.255	.050
17	-.441	-.668	-.388	-.498	-.579	-.310	-.280
18	-.906	-1.248	-1.002	-1.076	-1.087	-.985	-.713
19	-1.228	-1.757	-1.539	-1.568	-1.572	-.895	-.805
20	-1.246	-1.731	-1.504	-1.447	-1.540	-1.137	-.895
21	-1.143	-1.500	-1.296	-1.146	-1.313	-.931	-.716
22	-1.026	-1.003	-.797	-.837	-.941	-.759	-.684
23	-.770	-.203	-.213	-.126	-.172	-.300	-.616
24	-.538	-.149	-.144	.037	-.042	-.054	-.109
25	.455	.446	-.098	-.042	-.045	-.013	-.088
26	-.024	-.242	-.421	.724	.000.000	.754	.023
27	-.467	-.421	-.437	.892	.880	.550	.340
28	-.169	-.149	.026	.737	.586	.330	.130
29	-.124	.302	.410	.605	.574	.486	.389
30	.825	.933	.592	.969	.971	.939	.239
31	.894	1.166	.835	1.019	1.010	1.088	.753
32	.484	.762	.709	.813	.793	.789	.780
33	.197	.533	.479	.799	.609	.584	.276

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.125	1.244	.785	-.038	-.035	-.069	-.050
2	.772	.942	.917	-.075	-.053	-.049	-.106
3	.499	.671	.732	-.047	-.039	-.088	-.060
4	.118	.262	.386	-.024	-.037	-.062	-.030
5	-.292	-.209	-.005	-.032	-.051	-.058	-.072
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.459	-.614	-.637	-1.746	-1.635	-.948	-.651
11	-.524	-.848	.000.000	-1.107	-1.273	-.742	-.575
12	-.867	-.697	-.711	-.468	-.790	-.512	-.420
13	-.488	-.693	-.621	-.615	-.611	-.487	-.423
14	-.547	-.711	-.712	-.594	-.592	-.472	-.415
15	-.086	-.131	.382	.486	.427	.502	.221
16	.048	.033	.086	.165	.155	.171	.099
17	-.542	-.635	-.466	-.558	-.532	-.343	-.274
18	-1.005	-1.353	-1.172	-1.059	-.996	-.980	-.623
19	-1.402	-1.910	-1.697	-1.549	-1.623	-.895	-.756
20	-1.464	-2.060	-1.773	-1.460	-1.665	-1.468	-1.089
21	-1.339	-1.676	-1.376	-1.163	-1.494	-1.131	-.873
22	-1.239	-1.194	-.965	-.814	-.948	-.973	-.758
23	-1.021	-.289	-.221	-.196	-.209	-.354	-.621
24	-.587	-.137	-.175	.034	-.072	-.119	-.076
25	.547	.679	.061	-.053	-.035	-.047	-.045
26	.068	-.009	-.286	.713	.000.000	.738	.033
27	-.458	-.277	-.174	.932	.939	.560	.347
28	-.177	-.095	-.019	.754	.634	.318	.151
29	-.077	.346	.420	.648	.592	.484	.432
30	.858	1.106	.623	.978	.958	.962	.182
31	.902	1.131	.750	.988	.976	1.021	.714
32	.502	.844	.727	.844	.837	.831	.817
33	.181	.575	.528	.683	.652	.591	.238

Table 7. - Continued.

(a) $C_{T,S} = 0.90$, $q_s = 20.21$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.094	1.209	.904	-.092	-.088	-.049	-.107
2	.611	.769	.571	-.089	-.050	-.074	-.128
3	.396	.477	.436	-.085	-.043	-.051	-.122
4	-.034	.028	.332	-.088	-.060	-.048	-.100
5	-.340	-.389	-.212	-.055	-.051	-.060	-.128
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.557	-.711	-.778	-1.819	-1.701	-1.035	-.723
11	-.584	-.930	*000.000	-1.156	-1.285	-.721	-.579
12	-.906	-.712	-.799	-.454	-.740	-.513	-.465
13	-.583	-.743	-.743	-.573	-.586	-.484	-.513
14	-.883	-.802	-.777	-.524	-.578	-.536	-.448
15	-.219	-.151	.244	.490	.461	.547	.000
16	.040	-.034	.018	.171	.182	.146	-.010
17	-.641	-.892	-.596	-.566	-.566	-.350	-.423
18	-1.157	-1.451	-1.216	-.979	-1.058	-.937	-.736
19	-1.693	-2.139	-1.882	-1.388	-1.541	-1.055	-1.021
20	-1.866	-2.247	-1.868	-1.261	-1.627	-1.389	-1.039
21	-1.799	-2.006	-1.866	-1.090	-1.550	-1.109	-1.097
22	-1.506	-1.374	-1.196	-.717	-1.047	-.867	-.854
23	-1.241	-.929	-.233	-.268	-.270	-.422	-.595
24	-.650	-.184	-.139	-.002	-.021	-.112	-.167
25	.508	.824	.394	-.071	-.046	-.070	-.087
26	.116	.175	.175	.670	*000.000	.736	.018
27	-.443	-.190	-.134	.947	.980	.597	.206
28	-.168	-.045	.068	.807	.628	.332	.056
29	-.092	.335	.386	.609	.530	.430	.278
30	.825	1.149	.645	.918	.935	.983	.101
31	1.000	1.217	.891	1.087	1.040	1.118	.649
32	.465	.794	.709	.838	.779	.770	.757
33	.133	.536	.386	.675	.579	.555	.177

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.042	1.105	.765	-.046	-.061	0.	-.095
2	.455	.609	.548	-.030	-.073	-.010	-.074
3	.217	.288	.346	.011	-.056	.003	-.054
4	-.196	-.173	-.089	-.049	-.048	0.	-.096
5	-.442	-.534	-.233	-.008	-.071	-.008	-.056
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.580	-.797	-.670	-1.706	-1.730	-.943	-.708
11	-.649	-1.008	*000.000	-1.008	-1.316	-.705	-.612
12	-1.065	-.811	-.642	-.359	-.826	-.494	-.516
13	-.732	-.929	-.760	-.645	-.700	-.433	-.445
14	-.816	-.847	-.542	-.565	-.634	-.429	-.436
15	-.145	-.115	.499	.562	.395	.615	.079
16	-.111	-.047	.141	.231	.155	.238	-.001
17	-.751	-.978	-.460	-.501	-.573	-.311	-.337
18	-1.444	-1.661	-1.222	-.992	-1.148	-.892	-.669
19	-1.921	-2.182	-1.745	-1.240	-1.697	-.988	-.913
20	-2.137	-2.419	-1.843	-1.106	-1.577	-1.453	-1.103
21	-2.111	-2.144	-1.638	-.945	-1.629	-1.109	-.889
22	-1.836	-1.542	-1.102	-.687	-1.133	-.804	-.875
23	-1.278	-.395	-.145	-.222	-.279	-.361	-.544
24	-.726	-.270	-.135	-.011	-.007	.020	-.096
25	.692	.988	.871	-.038	-.031	-.008	-.040
26	.188	.351	.475	.645	*000.000	.725	.111
27	-.421	-.112	.152	1.045	1.008	.707	.187
28	-.200	-.027	.185	.838	.664	.357	.148
29	-.152	.299	.488	.691	.536	.468	.284
30	.825	1.128	.865	1.037	.917	1.049	.304
31	.905	1.139	1.017	1.053	.978	1.160	.574
32	.431	.757	.913	.873	.788	.828	.842
33	.121	.494	.593	.720	.599	.597	.231

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.982	1.067	.632	-.077	-.062	-.062	-.110
2	.434	.429	.276	-.070	-.086	-.086	-.093
3	.142	.137	.008	-.056	-.055	-.054	-.050
4	-.240	-.327	-.324	-.056	-.024	-.073	-.073
5	-.612	-.770	-.822	-.059	-.058	-.048	-.067
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.709	-.913	-.973	-1.873	-1.878	-1.141	-.900
11	-.709	-1.098	*000.000	-1.067	-1.400	-.787	-.663
12	-1.077	-.861	-.830	-.416	-.873	-.439	-.423
13	-.822	-.932	-.692	-.677	-.716	-.422	-.422
14	-.988	-.954	-.797	-.688	-.710	-.448	-.350
15	-.158	-.111	.450	.491	.416	.520	.035
16	-.147	-.112	.071	.188	.151	.271	.056
17	-.931	-1.071	-.520	-.518	-.570	-.339	-.416
18	-1.505	-1.635	-1.235	-.982	-1.177	-.874	-.679
19	-2.253	-2.365	-1.801	-1.251	-1.600	-1.041	-.506
20	-2.440	-2.414	-1.914	-1.233	-1.689	-1.144	-.871
21	-2.418	-2.253	-1.893	-1.021	-1.522	-.852	-.602
22	-2.054	-1.635	-1.216	-.793	-.956	-.619	-.518
23	-1.318	-.431	-.441	-.324	-.283	-.272	-.318
24	-.716	-.258	-.106	-.049	-.015	-.121	-.095
25	.768	1.049	.949	-.067	-.057	-.048	-.077
26	.248	.437	.825	.604	*000.000	.708	.084
27	-.358	-.049	.135	.944	.986	.647	.115
28	-.161	-.022	.278	.772	.635	.248	.196
29	-.120	.312	.592	.637	.513	.380	.193
30	.795	1.113	.911	.974	.876	.846	.219
31	.867	1.162	1.061	1.025	.961	1.091	.548
32	.395	.780	.887	1.007	.807	.781	.822
33	.089	.485	.550	.650	.537	.457	.221

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.979	.970	.647	-.044	-.037	-.063	-.061
2	.324	.314	.200	-.040	-.036	-.070	-.064
3	.052	-.048	-.036	-.063	-.044	-.075	-.069
4	-.370	-.479	-.504	-.066	-.034	-.053	-.041
5	-.699	-.904	-.749	-.071	-.062	-.037	-.060
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.728	-1.030	-1.069	-2.020	-2.188	-.643	-.371
11	-.750	-1.141	*000.000	-1.102	-1.543	-.371	-.331
12	-1.127	-.923	-.838	-.439	-.886	-.260	-.335
13	-.931	-.998	-.823	-.687	-.661	-.251	-.300
14	-1.071	-.997	-.791	-.640	-.586	-.138	-.343
15	-.228	-.141	.329	.459	.400	.518	.045
16	-.279	-.182	.133	.190	.088	.206	-.015
17	-1.003	-1.115	-.540	-.521	-.567	-.097	-.283
18	-1.782	-1.871	-1.411	-1.051	-.996	-.329	-.430
19	-2.498	-2.508	-2.004	-1.245	-1.292	-.392	-.454
20	-2.740	-2.640	-1.974	-1.229	-1.179	-.354	-.515
21	-2.752	-2.398	-1.810	-1.035	-.973	-.311	-.211
22	-2.245	-1.884	-1.133	-.787	-.831	-.293	-.319
23	-1.299	-.531	-.198	-.319	-.194	-.227	-.229
24	-.811	-.314	-.154	-.098	-.109	-.247	-.296
25	.745	1.115	1.015	-.022	-.043	-.063	-.060
26	.342	.699	.891	.586	*000.000	.676	.035
27	-.333	.109	.361	.951	.994	.411	.128
28	-.187	.020	.257	.776	.608	.100	.035
29	-.148	.309	.521	.782	.526	.407	.193
30	.832	1.162	.944	.998	.906	.915	.154
31	.829	1.133	1.099	1.026	.956	1.111	.312
32	.380	.776	.875	.838	.762	.750	.740
33	.118	.491	.703	.687	.517	.395	.013

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.868	.904	.412	-.076	-.069	-.014	.001
2	.180	.194	-.096	-.048	-.072	-.023	-.047
3	-.135	-.219	-.312	-.056	-.062	-.085	-.079
4	-.549	-.661	-.741	-.036	-.042	-.033	-.027
5	-.916	-1.038	-1.041	-.085	-.041	-.041	-.038
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.870	-1.180	-1.344	-1.952	-2.003	-.153	-.297
11	-.860	-1.267	*000.000	-1.079	-1.488	-.345	-.375
12	-1.220	-1.008	-.952	-.477	-.810	-.227	-.371
13	-1.068	-1.060	-.950	-.566	-.587	-.127	-.255
14	-1.344	-1.171	-.978	-.596	-.583	-.063	-.266
15	-.270	-.161	.143	.520	.342	.528	.070
16	-.369	-.184	.009	.195	.067	.267	.008
17	-1.235	-1.251	-.761	-.492	-.613	-.143	-.280
18	-1.960	-1.955	-1.478	-.913	-.823	-.429	-.386
19	-2.741	-2.717	-2.181	-1.312	-1.164	-.357	-.416
20	-2.908	-2.805	-2.242	-1.155	-.934	-.212	-.377
21	-3.037	-2.891	-1.969	-.939	-1.041	-.279	-.345
22	-2.462	-1.832	-1.391	-.751	-.966	-.302	-.289
23	-1.295	-.572	-.315	-.340	-.306	-.341	-.321
24	-.701	-.365	-.310	-.042	-.104	-.091	-.093
25	.795	1.153	.898	-.065	-.073	.027	-.014
26	.294	.819	.915	.627	*000.000	.681	.096
27	-.347	.136	.275	1.005	1.021	.073	.206
28	-.252	.008	.105	.779	.571	.108	.122
29	-.222	.271	.463	.614	.453	.291	.167
30	.721	1.117	.907	1.005	.823	.750	.158
31	.768	1.116	1.041	1.060	.901	1.088	.208
32	.307	.741	.775	.971	.664	.736	.641
33	.022	.478	.611	.651	.505	.372	.044

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.830	.835	.485	-.017	-.031	-.054	-.031
2	.093	.041	-.247	-.024	-.072	-.097	-.042
3	-.273	-.327	-.504	.008	-.061	.026	-.051
4	-.622	-.780	-.796	-.041	-.062	.033	-.059
5	-.978	-1.128	-1.067	-.024	-.025	.067	-.035
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.990	-1.187	-1.245	-1.902	-1.881	-.296	-.301
11	-.946	-1.243	*000.000	-.941	-1.186	-.282	-.235
12	-1.285	-1.063	-.904	-.372	-.748	-.188	-.320
13	-1.215	-1.138	-.890	-.544	-.612	-.131	-.258
14	-1.500	-1.232	-.948	-.578	-.585	-.062	-.291
15	-.347	-.143	.213	.498	.363	.494	-.069
16	-.504	-.187	.049	.263	.085	.263	-.005
17	-1.427	-1.371	-.745	-.449	-.536	-.097	-.271
18	-2.198	-2.132	-1.588	-1.015	-.946	-.415	-.343
19	-3.047	-2.887	-2.283	-1.230	-.918	-.410	-.347
20	-3.231	-2.942	-2.125	-1.094	-1.201	-.335	-.286
21	-3.277	-2.857	-1.985	-.945	-.914	-.310	-.300
22	-2.545	-2.059	-1.474	-.581	-.538	-.228	-.234
23	-1.426	-.535	-.311	-.217	-.299	-.275	-.310
24	-.902	-.464	-.202	-.058	-.133	-.200	-.269
25	.761	1.203	1.012	-.019	-.062	-.101	-.085
26	.347	.774	1.013	.607	*000.000	.645	.084
27	-.390	.182	.393	1.026	.958	.188	.039
28	-.263	.044	.190	.840	.577	.187	.036
29	-.258	.293	.495	.670	.437	.322	.101
30	.672	1.182	1.062	1.114	.847	.773	.066
31	.737	1.149	1.052	1.074	.925	1.087	.039
32	.249	.774	.807	.821	.684	.699	.520
33	.005	.484	.548	.623	.426	.372	.062

Table 7. - Continued.

(a) $C_{T,s} = 0.90$, $q_s = 20.21$

$\alpha = 65°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.015	.060	.508	-.089	-.055	-.066	-.073
2	.079	.030	-.053	-.052	-.041	-.176	-.059
3	-.242	-.244	-.278	-.052	-.019	-.040	-.041
4	-.731	-.715	-.648	-.067	-.041	-.111	-.071
5	-.904	-1.010	-.927	-.050	-.052	-.145	-.085
6	000.000	000.000	000.000	000.000	000.000	000.000	000.000
7	000.000	000.000	000.000	000.000	000.000	000.000	000.000
8	000.000	000.000	000.000	000.000	000.000	000.000	000.000
9	000.000	000.000	000.000	000.000	000.000	000.000	000.000
10	-.744	-1.067	-.915	-.520	-.399	-.438	-.417
11	-.959	-1.144	000.000	-.693	-.570	-.310	-.335
12	-.851	-.874	-.571	-.250	-.294	-.339	-.298
13	-1.000	-.921	-.554	-.250	-.225	-.275	-.209
14	-1.224	-1.010	-.585	-.233	-.248	-.218	-.176
15	-.409	-.116	.297	.426	.356	.458	-.306
16	-.348	-.149	.116	.302	.235	.084	-.104
17	-1.196	-1.079	-.448	-.261	-.278	-.173	-.341
18	-1.438	-1.143	-.966	-.481	-.393	-.353	-.425
19	-2.493	-2.455	-1.808	-.510	-.400	-.473	-.351
20	-2.878	-2.883	-1.573	-.410	-.372	-.419	-.549
21	-2.701	-2.467	-1.321	-.346	-.355	-.316	-.428
22	-2.149	-1.752	-.791	-.238	-.236	-.380	-.396
23	-1.010	-.574	-.480	-.272	-.246	-.346	-.272
24	-.823	-.110	-.197	-.178	-.209	-.237	-.216
25	.707	1.112	.000	-.043	-.019	-.105	-.044
26	.292	.464	.232	.573	000.000	.570	.104
27	-.355	.184	.345	.894	.889	.104	.008
28	-.259	.043	.179	.781	.575	-.020	.036
29	-.234	.260	.443	.547	.410	.272	.121
30	.809	1.113	1.006	.926	.744	.676	-.022
31	.852	1.073	1.013	.898	.792	.783	.190
32	.781	.795	.813	.724	.646	.675	.436
33	.078	.477	.609	.534	.388	.325	-.005

$\alpha = 70°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.750	.794	.391	-.022	-.018	-.060	-.044
2	.040	.0[illegible]	-.105	-.055	-.048	-.018	-.041
3	-.273	-.694	-.516	-.073	-.076	-.064	-.140
4	-.717	-.702	-.542	-.028	-.040	-.024	-.011
5	-.952	-1.024	-.721	-.052	-.074	-.007	-.086
6	000.000	000.000	000.000	000.000	000.000	000.000	000.000
7	000.000	000.000	000.000	000.000	000.000	000.000	000.000
8	000.000	000.000	000.000	000.000	000.000	000.000	000.000
9	000.000	000.000	000.000	000.000	000.000	000.000	000.000
10	-1.017	-1.044	-.867	-.506	-.381	-.337	-.386
11	-.960	-1.173	000.000	-.376	-.345	-.194	-.294
12	-.760	-.992	-.511	-.071	-.329	-.170	-.298
13	-1.009	-1.034	-.547	-.305	-.213	-.160	-.301
14	-1.251	-1.021	-.531	-.241	-.249	-.230	-.249
15	-.283	-.155	.247	.418	.347	.435	-.148
16	-.443	-.182	.123	.294	.145	.216	-.093
17	-1.126	-1.149	-.536	-.199	-.266	-.095	-.223
18	-1.396	-1.772	-.948	-.473	-.437	-.487	-.410
19	-2.081	-2.493	-1.305	-.455	-.436	-.445	-.490
20	-2.745	-2.277	-1.120	-.357	-.351	-.257	-.270
21	-2.600	-2.455	-1.404	-.305	-.352	-.286	-.416
22	-2.161	-1.717	-.915	-.229	-.311	-.394	-.378
23	-.789	-.614	-.416	-.269	-.269	-.225	-.321
24	-.513	-.175	-.140	-.168	-.181	-.178	-.196
25	.594	1.165	.890	-.022	-.017	-.036	-.071
26	.231	.882	.746	.515	000.000	.581	.144
27	-.410	.144	.392	.930	.936	-.106	.071
28	-.367	.038	.149	.698	.535	.098	-.033
29	-.227	.231	.360	.653	.336	.186	.110
30	.534	1.071	.959	.915	.829	.518	-.136
31	.595	1.052	.997	.899	.813	.865	-.001
32	.381	.888	.756	.676	.567	.557	.263
33	.045	.423	.581	.520	.346	.173	.058

$\alpha = 75°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.013	.052	.122	-.055	-.069	-.123	-.086
2	-.191	-.238	-.483	-.052	-.033	-.030	-.104
3	-.522	-.586	-.637	-.064	-.028	-.012	-.223
4	-.916	-.997	-.928	-.010	-.033	-.023	-.073
5	-1.226	-1.344	-1.147	-.064	-.077	-.063	-.012
6	000.000	000.000	000.000	000.000	000.000	000.000	000.000
7	000.000	000.000	000.000	000.000	000.000	000.000	000.000
8	000.000	000.000	000.000	000.000	000.000	000.000	000.000
9	000.000	000.000	000.000	000.000	000.000	000.000	000.000
10	-1.202	-1.295	-1.172	-1.281	-1.072	-.199	-.261
11	-1.283	-1.356	000.000	-.515	-.913	-.194	-.233
12	-1.112	-1.083	-.759	-.079	-.462	-.114	-.059
13	-1.235	-1.130	-.742	-.411	-.342	-.067	-.235
14	-1.410	-1.245	-.835	-.484	-.360	-.113	-.251
15	-.449	-.221	.233	.438	.388	.414	-.210
16	-.307	-.251	.055	.254	.238	.221	-.021
17	-1.268	-1.310	-.842	-.352	-.311	-.095	-.090
18	-2.122	-2.131	-1.490	-.698	-.528	-.205	-.243
19	-2.712	-2.709	-2.011	-.753	-.530	-.135	-.226
20	-2.998	-3.018	-2.065	-.659	-.482	-.228	-.335
21	-2.842	-2.752	-1.889	-.714	-.478	-.256	-.394
22	-2.115	-2.029	-1.407	-.427	-.275	-.106	-.088
23	-.889	-.618	-.517	-.281	-.216	-.151	-.274
24	-.733	-.199	-.072	-.046	-.047	-.124	-.007
25	.941	1.173	.729	-.056	-.027	-.020	-.154
26	.237	.883	.904	.477	000.000	.523	.163
27	-.568	.162	.405	.828	.896	-.058	-.010
28	-.412	.009	.144	.709	.464	-.196	.124
29	-.320	.228	.385	.573	.341	.173	.100
30	.539	1.083	.918	.892	.764	.603	-.122
31	.593	1.134	1.074	.886	.833	.794	.019
32	.227	.756	.827	.607	.579	.542	.318
33	-.038	.487	.590	.480	.413	.360	-.009

$\alpha = 80°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.474	.837	.115	-.041	-.038	-.143	-.013
2	-.406	-.223	-.503	-.041	-.067	-.092	-.001
3	-.694	-.807	-.733	-.008	-.038	-.115	.023
4	-1.054	-1.006	-.864	-.024	-.020	-.069	.004
5	-1.263	-1.300	-.947	-.051	-.057	-.100	-.039
6	000.000	000.000	000.000	000.000	000.000	000.000	000.000
7	000.000	000.000	000.000	000.000	000.000	000.000	000.000
8	000.000	000.000	000.000	000.000	000.000	000.000	000.000
9	000.000	000.000	000.000	000.000	000.000	000.000	000.000
10	-1.289	-1.259	-1.108	-1.414	-1.213	-.213	-.117
11	-1.179	-1.304	000.000	-.501	-.741	-.173	-.007
12	-1.075	-1.082	-.747	-.082	-.462	-.165	-.041
13	-1.152	-1.103	-.667	-.351	-.320	-.142	-.016
14	-1.397	-1.227	-.781	-.375	-.314	-.182	-.060
15	-.483	-.264	.238	.304	.277	.349	.010
16	-.480	-.155	.128	.203	.128	.172	.125
17	-1.183	-1.269	-.831	-.269	-.239	-.044	-.020
18	-1.948	-1.979	-1.317	-.590	-.382	-.256	-.139
19	-2.441	-2.654	-1.922	-.719	-.400	-.283	-.116
20	-2.736	-2.645	-1.902	-.740	-.432	-.242	-.038
21	-2.360	-2.624	-1.718	-.423	-.194	-.156	-.011
22	-1.961	-1.740	-1.223	-.404	-.231	-.139	-.098
23	-.825	-.565	-.456	-.133	-.121	-.171	-.040
24	-.705	-.251	-.064	-.064	.002	-.064	.043
25	.592	1.133	.688	-.025	-.053	-.108	.011
26	.221	.840	.884	.542	000.000	.562	.179
27	-.533	.185	.417	.923	.853	-.126	.140
28	-.414	.030	.134	.692	.495	.077	.176
29	-.397	.215	.357	.522	.312	.134	.130
30	.437	1.043	.922	.824	.638	.516	-.039
31	.515	1.057	1.037	.869	.687	.651	.138
32	.178	.728	.800	.573	.518	.466	.278
33	-.081	.398	.547	.433	.330	.272	.250

Table 7.- Continued.

(b) $C_{T,S} = 0.80$, $q_s = 20.01$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.115	1.071	.417	-.042	-.066	-.078	-.064
2	1.098	1.256	.850	-.014	-.072	-.045	-.005
3	.932	1.115	.861	-.073	-.067	-.056	-.051
4	.576	.773	.732	-.033	-.047	-.072	-.016
5	.118	.264	.335	-.057	-.078	-.092	-.080
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.303	-.333	-.393	-1.131	-1.137	-.764	-.530
11	-.431	-.682	*000.000	-.871	-1.189	-.772	-.586
12	-.743	-.820	-.641	-.331	-.920	-.593	-.489
13	-.341	-.582	-.600	-.617	-.735	-.470	-.395
14	-.378	-.589	-.634	-.679	-.741	-.495	-.384
15	-.065	-.131	.374	.408	.364	.437	.015
16	.179	.096	.141	.138	.112	.122	.058
17	-.347	-.552	-.387	-.497	-.707	-.407	-.301
18	-.795	-1.019	-.927	-1.148	-1.303	-1.131	-.745
19	-1.225	-1.458	-1.562	-1.710	-1.862	-1.192	-.831
20	-1.330	-1.445	-1.465	-1.733	-1.802	-1.550	-1.069
21	-1.199	-1.260	-1.282	-1.518	-1.673	-1.326	-.990
22	-.879	-.857	-.745	-.848	-1.194	-1.061	-.788
23	-.324	-.113	-.145	-.156	-.155	-.249	-.498
24	-.389	-.112	-.146	-.078	-.119	-.048	-.185
25	.138	-.161	-.806	-.058	-.068	-.063	-.017
26	-.605	-1.046	-.997	.734	*000.000	.779	.360
27	-.882	-.899	-.512	.595	.542	.483	.278
28	-.250	-.235	.022	.497	.337	.233	.153
29	.051	.351	.370	.476	.459	.432	.378
30	.914	.611	.596	.980	1.019	1.017	.227
31	1.053	.993	.656	1.072	1.137	1.095	.762
32	.612	.846	.657	.848	.879	.807	.857
33	.272	.514	.469	.590	.627	.536	.136

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.149	1.149	.674	-.021	-.063	-.039	-.028
2	.954	1.095	.802	-.043	-.068	-.049	-.050
3	.752	.875	.695	-.045	-.036	-.048	-.042
4	.354	.546	.550	-.018	-.034	-.045	-.049
5	-.076	.037	.155	-.013	-.072	-.062	-.048
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.347	-.453	-.475	-1.372	-1.422	-.936	-.698
11	-.479	-.789	*000.000	-.992	-1.303	-.834	-.694
12	-.815	-.634	-.629	-.391	-.863	-.549	-.511
13	-.390	-.625	-.561	-.606	-.737	-.511	-.442
14	-.474	-.643	-.574	-.635	-.708	-.500	-.387
15	-.056	-.298	.436	.403	.360	.480	.041
16	.168	.024	.191	.156	.110	.153	.028
17	-.397	-.595	-.335	-.488	-.626	-.326	-.305
18	-.891	-1.097	-.894	-1.068	-1.206	-1.136	-.705
19	-1.338	-1.558	-1.421	-1.569	-1.803	-1.154	-.893
20	-1.367	-1.528	-1.393	-1.656	-1.769	-1.514	-1.044
21	-1.312	-1.373	-1.185	-1.193	-1.450	-1.228	-.954
22	-1.050	-.842	-.746	-.903	-.979	-.995	-.823
23	-.614	-.224	-.169	-.171	-.175	-.279	-.519
24	-.517	-.145	-.096	-.062	-.147	-.086	-.226
25	.381	.254	-.158	.041	-.033	-.027	-.013
26	-.284	-.487	-.336	.595	*000.000	.675	.200
27	-.553	-.497	-.258	.819	.776	.445	.349
28	-.221	-.119	.125	.598	.451	.327	.161
29	.062	.330	.448	.519	.517	.441	.421
30	.903	.910	.831	.955	.988	.894	.242
31	1.047	1.157	.722	1.007	1.055	1.075	.790
32	.578	.777	.721	.974	.842	.805	.858
33	.251	.529	.517	.616	.617	.586	.149

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.187	1.227	.639	-.069	-.053	-.039	-.060
2	.862	.982	.775	-.034	-.051	-.047	-.050
3	.642	.774	.668	-.044	-.045	-.050	-.074
4	.201	.289	.351	-.062	-.035	-.039	-.059
5	-.182	-.180	-.132	-.047	-.056	-.040	-.060
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.429	-.615	-.697	-1.609	-1.547	-1.059	-.874
11	-.532	-.885	*000.000	-1.156	-1.461	-.945	-.852
12	-.896	-.672	-.699	-.455	-.964	-.571	-.573
13	-.457	-.706	-.674	-.615	-.768	-.516	-.463
14	-.517	-.657	-.590	-.639	-.708	-.488	-.456
15	-.051	-.343	.416	.430	.396	.439	.015
16	.136	.065	.195	.146	.110	.133	0.
17	-.461	-.681	-.442	-.532	-.669	-.358	-.328
18	-1.075	-1.273	-1.098	-1.221	-1.369	-1.234	-.878
19	-1.526	-1.737	-1.550	-1.551	-1.764	-1.177	-.995
20	-1.678	-1.929	-1.623	-1.501	-1.873	-1.476	-1.137
21	-1.517	-1.516	-1.246	-1.293	-1.546	-1.364	-1.016
22	-1.250	-1.042	-.774	-.871	-.957	-.968	-.867
23	-.772	-.203	-.160	-.184	-.150	-.188	-.580
24	-.529	-.163	-.176	-.009	-.056	-.142	-.210
25	.627	.576	.106	-.079	-.044	-.057	-.094
26	-.038	-.176	-.125	.473	*000.000	.568	.075
27	-.447	-.322	-.177	.881	.918	.330	.500
28	-.190	-.082	.127	.699	.587	.436	.216
29	.094	.373	.427	.584	.594	.503	.411
30	.960	1.024	.611	.977	1.003	.987	.230
31	1.052	1.172	.826	1.001	1.064	1.119	.820
32	.638	.829	.706	.873	.863	.840	.890
33	.270	.543	.440	.622	.630	.575	.241

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.150	1.193	.787	-.062	-.064	-.063	-.050
2	.713	.771	.380	-.070	-.076	-.084	-.075
3	.413	.451	.325	-.064	-.071	-.079	-.084
4	-.012	-.002	.027	-.071	-.061	-.084	-.056
5	-.404	-.450	-.393	-.084	-.059	-.039	-.072
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.528	-.729	-.778	-1.822	-1.832	-1.238	-1.008
11	-.623	-.984	*000.000	-1.242	-1.551	-1.080	-.934
12	-.978	-.779	-.739	-.471	-1.012	-.622	-.591
13	-.553	-.767	-.795	-.715	-.812	-.568	-.495
14	-.697	-.801	-.780	-.754	-.850	-.586	-.523
15	-.030	-.503	.391	.464	.440	.432	.014
16	.030	-.030	.140	.129	.079	.129	-.063
17	-.658	-.894	-.515	-.613	-.782	-.490	-.426
18	-1.252	-1.471	-1.220	-1.176	-1.408	-1.168	-.813
19	-1.726	-1.969	-1.725	-1.364	-1.893	-1.237	-1.036
20	-1.971	-2.140	-1.872	-1.412	-1.965	-1.584	-1.157
21	-1.691	-1.857	-1.630	-1.192	-1.765	-1.352	-1.063
22	-1.714	-1.266	-1.082	-.805	-1.150	-.950	-.924
23	-.981	-.258	-.201	-.181	-.172	-.587	
24	-.639	-.194	-.164	-.002	-.037	-.145	-.199
25	.813	.846	.439	-.068	-.075	-.061	-.064
26	.146	.206	.425	.339	*000.000	.387	-.009
27	-.372	-.125	.074	.941	1.044	.622	.540
28	-.167	-.005	.130	.750	.684	.458	.208
29	.042	.376	.541	.658	.649	.559	.393
30	.866	1.043	.744	.974	1.011	.996	.118
31	.998	1.133	.836	1.021	1.066	1.122	.679
32	.548	.814	.711	.865	.866	.859	.811
33	.234	.531	.548	.666	.651	.626	.274

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.141	1.129	.617	-.020	-.025	-.051	-.018
2	.475	.447	.034	-.042	-.057	-.102	-.063
3	.188	.140	.057	-.016	-.030	-.071	-.047
4	-.215	-.272	-.402	-.043	-.066	-.063	-.041
5	-.561	-.738	-.645	.005	-.032	-.072	-.085
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.694	-.889	-.877	-1.889	-1.950	-1.357	-1.067
11	-.686	-1.072	*000.000	-1.198	-1.601	-1.051	-.869
12	-1.104	-.826	-.956	-.484	-.993	-.667	-.595
13	-.678	-.851	-.696	-.648	-.800	-.501	-.395
14	-.892	-.903	-.762	-.693	-.768	-.593	-.493
15	-.067	-.492	.389	.513	.419	.406	.011
16	-.084	-.032	.008	.209	.115	.084	-.004
17	-.738	-.916	-.732	-.484	-.754	-.446	-.348
18	-1.485	-1.626	-1.407	-.988	-1.288	-1.197	-.769
19	-1.966	-2.088	-1.857	-1.197	-1.740	-1.093	-.880
20	-2.349	-2.323	-2.103	-1.137	-1.803	-1.569	-1.179
21	-2.245	-2.028	-1.564	-.907	-1.589	-1.321	-.983
22	-1.969	-1.379	-1.121	-.659	-1.055	-1.026	-.913
23	-1.175	-.349	-.175	-.209	-.165	-.276	-.467
24	-.784	-.198	-.042	.013	.040	-.068	-.055
25	.949	1.034	.850	-.032	-.049	-.081	-.047
26	.330	.561	.565	-.023	*000.000	.346	-.044
27	-.229	.083	.423	1.046	1.049	.487	.428
28	-.106	.100	.261	1.020	.741	.469	.256
29	.030	.399	.479	.700	.648	.499	.421
30	.823	1.118	.717	1.022	.999	.971	.083
31	.979	1.181	.884	1.111	1.051	1.090	.726
32	.564	.812	.912	.916	.872	.841	.864
33	.255	.556	.589	.746	.646	.553	.173

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.990	.949	.458	-.082	-.059	-.047	-.009
2	.275	.170	-.094	-.067	-.048	-.085	-.053
3	-.040	-.194	-.307	-.041	-.057	-.050	-.084
4	-.468	-.624	-.644	-.028	-.047	-.088	-.030
5	-.775	-1.020	-1.037	-.050	-.057	-.029	-.036
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.743	-1.079	-1.162	-2.078	-2.102	-1.380	-.896
11	-.779	-1.185	*000.000	-1.237	-1.592	-.934	-.668
12	-1.203	-.957	-.982	-.553	-1.005	-.546	-.513
13	-.741	-.891	-.926	-.660	-.759	-.525	-.442
14	-1.050	-.962	-.838	-.716	-.783	-.575	-.404
15	-.115	-.544	.277	.533	.406	.445	.019
16	-.227	-.120	-.020	.103	.060	.045	-.097
17	-.948	-1.032	-.663	-.618	-.824	-.432	-.389
18	-1.700	-1.724	-1.480	-1.082	-1.286	-1.192	-.694
19	-2.371	-2.327	-2.075	-1.340	-1.840	-1.085	-.902
20	-2.646	-2.395	-2.165	-1.224	-1.755	-1.540	-1.099
21	-2.605	-2.157	-1.792	-1.011	-1.552	-1.283	-.907
22	-2.420	-1.612	-1.221	-.759	-1.082	-.950	-.820
23	-1.416	-.421	-.293	-.327	-.218	-.354	-.440
24	-.953	-.243	-.184	-.083	-.009	-.097	-.109
25	1.000	1.180	.856	-.065	-.058	-.069	-.048
26	.442	.774	.870	.286	*000.000	.344	-.073
27	-.180	.233	.323	1.035	1.149	.891	.315
28	-.115	.155	.251	.920	.768	.451	.165
29	-.007	.402	.499	.696	.652	.473	.322
30	.795	1.188	.902	.980	.950	1.012	.044
31	.890	1.178	1.059	1.077	1.058	1.057	.523
32	.511	.831	.778	1.045	.848	.820	.838
33	.221	.566	.622	.705	.640	.523	.151

Table 7. - Continued.

(b) $C_{T,S} = 0.80$, $q_S = 20.01$

$\alpha = 35°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.885	.726	.017	-.036	-.026	-.005	-.001
2	.046	-.207	-.601	-.042	-.048	.004	-.035
3	-.247	-.554	-.857	-.048	-.045	-.004	-.014
4	-.676	-.953	-1.096	-.048	-.041	-.020	-.008
5	-.973	-1.280	-1.176	-.033	-.041	.026	.019
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.884	-1.221	-1.357	-2.133	-2.124	-1.230	-.830
11	-.874	-1.273	.000.000	-1.179	-1.569	-.741	-.505
12	-1.294	-1.004	-.973	-.478	-.943	-.435	-.382
13	-.941	-1.033	-.908	-.708	-.774	-.502	-.470
14	-1.153	-1.023	-.850	-.735	-.771	-.502	-.418
15	-.265	-.517	.315	.586	.438	.514	-.031
16	-.350	-.110	.019	.223	.124	.141	-.047
17	-1.182	-1.187	-.772	-.594	-.764	-.391	-.296
18	-2.015	-1.931	-1.663	-1.094	-1.261	-1.090	-.789
19	-2.739	-2.492	-2.190	-1.393	-1.808	-1.022	-.816
20	-3.042	-2.624	-2.269	-1.231	-1.711	-1.380	-1.050
21	-3.233	-2.578	-2.127	-1.015	-1.700	-1.284	-.904
22	-2.706	-1.782	-1.466	-.790	-1.064	-.955	-.704
23	-1.384	-.501	-.360	-.337	-.294	-.327	-.500
24	-1.082	-.368	-.293	-.019	.044	.071	-.199
25	1.083	1.214	.860	-.038	-.033	.018	-.010
26	.550	.933	1.010	.247	.000.000	.350	-.030
27	-.064	.370	.546	.970	1.084	.752	.239
28	-.095	.201	.340	.941	.819	.438	.231
29	-.064	.407	.483	.737	.639	.513	.305
30	.748	1.222	1.025	1.089	.992	.983	.164
31	.863	1.205	1.064	1.128	1.074	1.194	.400
32	.442	.856	.890	.941	.804	.858	.733
33	.224	.555	.645	.748	.662	.561	.136

$\alpha = 40°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.740	.525	-.103	-.026	-.054	.003	.009
2	-.161	-.553	-.856	-.043	-.054	-.148	-.002
3	-.467	-.879	-1.041	-.050	-.038	-.012	-.029
4	-.940	-1.257	-1.314	-.053	-.056	-.001	.011
5	-1.233	-1.579	-1.210	-.082	-.059	-.117	-.005
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.033	-1.418	-1.474	-2.428	-2.338	-1.507	-1.016
11	-1.021	-1.435	.000.000	-1.270	-1.632	-.881	-.665
12	-1.339	-1.043	-.927	-.546	-1.000	-.583	-.467
13	-1.100	-1.104	-.946	-.691	-.706	-.386	-.354
14	-1.344	-1.202	-.935	-.707	-.646	-.354	-.343
15	-.411	-.541	.353	.585	.430	.611	-.109
16	-.577	-.147	.052	.181	.075	.270	-.023
17	-1.451	-1.343	-.739	-.617	-.708	-.273	-.413
18	-2.362	-2.130	-1.576	-1.215	-1.342	-1.069	-.639
19	-3.232	-2.811	-2.294	-1.400	-1.543	-1.081	-.763
20	-3.614	-3.024	-2.334	-1.282	-1.705	-1.239	-.722
21	-3.044	-2.787	-2.049	-1.143	-1.605	-1.291	-.885
22	-3.017	-2.042	-1.527	-.826	-1.023	-.975	-.751
23	-1.492	-.543	-.298	-.295	-.208	-.246	-.342
24	-1.337	-.489	-.246	-.112	.005	-.226	-.141
25	1.100	1.251	.840	-.083	-.084	-.089	-.004
26	.677	1.090	1.130	-.028	.000.000	.332	-.028
27	-.047	.441	.976	1.044	1.114	.764	.128
28	-.111	.261	.424	.966	.805	.298	.189
29	-.116	.397	.557	.721	.606	.379	.203
30	.676	1.185	1.178	1.064	.965	.816	.084
31	.724	1.113	1.148	1.064	.986	1.196	.231
32	.406	.771	.958	1.108	.830	.920	.607
33	.141	.525	.662	.712	.509	.458	.105

$\alpha = 45°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.635	.276	-.344	-.071	-.051	-.009	.044
2	-.356	-.842	-1.355	-.066	-.063	-.074	-.119
3	-.677	-1.286	-1.610	-.050	-.037	-.006	-.067
4	-1.117	-1.677	-1.863	-.065	-.036	-.040	.016
5	-1.345	-1.893	-1.842	-.052	-.054	-.042	.034
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.173	-1.604	-1.691	-2.631	-2.582	-.474	-.413
11	-1.103	-1.531	.000.000	-1.325	-1.727	-.427	-.389
12	-1.495	-1.194	-1.104	-.982	-1.023	-.283	-.262
13	-1.376	-1.292	-1.041	-.784	-.854	-.383	-.340
14	-1.637	-1.321	-1.022	-.852	-.812	-.300	-.350
15	-.539	-.577	.277	.540	.436	.470	-.110
16	-.685	-.244	.056	.165	.101	.226	-.163
17	-1.855	-1.481	-.823	-.722	-.859	-.244	-.474
18	-2.808	-2.311	-1.742	-1.286	-1.250	-.636	-.491
19	-3.562	-3.107	-2.502	-1.630	-1.657	-.485	-.488
20	-3.947	-3.240	-2.556	-1.469	-1.355	-.492	-.415
21	-3.773	-2.956	-2.246	-1.176	-1.345	-.475	-.391
22	-3.140	-2.175	-1.705	-.937	-.744	-.391	-.281
23	-1.472	-.594	-.390	-.440	-.331	-.432	-.436
24	-1.346	-.445	-.269	-.070	-.147	-.385	-.342
25	1.086	1.184	.721	-.056	-.045	-.044	-.099
26	.710	1.107	1.108	-.074	.000.000	.363	-.091
27	-.040	.550	.759	1.037	1.184	.708	.157
28	-.048	.252	.409	1.007	.806	.188	.135
29	-.121	.387	.563	.751	.582	.343	.197
30	.812	1.227	1.203	1.137	1.028	.873	-.017
31	.705	1.184	1.189	1.105	1.062	1.209	.106
32	.409	.836	.922	1.101	.817	.733	.438
33	.108	.523	.675	.715	.557	.419	.146

$\alpha = 50°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.546	.248	-.315	-.089	-.093	-.014	-.133
2	-.444	-.817	-1.111	-.051	-.052	.001	-.154
3	-.700	-1.003	-1.041	-.054	-.044	-.048	-.123
4	-1.117	-1.463	-1.298	-.060	-.050	-.016	-.084
5	-1.416	-1.632	-1.247	-.056	-.040	.043	-.122
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.195	-1.229	-.965	-.438	-.478	-.449	-.673
11	-1.061	-1.274	.000.000	-1.529	-1.490	-.338	-.472
12	-.957	-.900	-.534	-.270	-.382	-.315	-.401
13	-1.215	-.980	-.570	-.449	-.399	-.321	-.407
14	-1.410	-1.015	-.524	-.368	-.365	-.265	-.351
15	-.456	-.549	.377	.580	.457	.521	-.140
16	-.617	-.141	.210	.272	.253	.238	-.093
17	-1.347	-1.103	-.397	-.242	-.336	-.209	-.315
18	-2.312	-1.963	-1.278	-.711	-.585	-.472	-.440
19	-3.279	-2.740	-1.796	-.806	-.646	-.522	-.536
20	-3.594	-2.740	-1.658	-.801	-.498	-.325	-.479
21	-3.533	-2.611	-1.640	-.504	-.411	-.279	-.457
22	-2.742	-1.926	-1.247	-.387	-.392	-.380	-.396
23	-1.442	-.717	-.499	-.335	-.340	-.243	-.367
24	-1.159	-.226	-.276	-.278	-.312	-.255	-.259
25	1.040	1.146	.642	-.051	-.052	-.010	-.069
26	.679	1.045	1.018	-.074	.000.000	.280	-.137
27	-.026	.567	.731	1.020	1.104	.234	.049
28	-.148	.262	.394	.861	.728	.263	.051
29	-.173	.391	.524	.674	.511	.348	.150
30	.564	1.133	1.121	1.042	.915	.909	.055
31	.651	1.166	1.116	1.094	.947	1.131	.191
32	.376	.836	.915	.906	.803	.770	.454
33	.133	.552	.612	.679	.489	.425	.050

Table 7.- Continued.

(b) $C_{T,S} = 0.80$, $q_s = 20.01$

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	+.523	+.101	-.575	-.020	-.047	-.031	-.013
2	-.541	-.885	-1.046	-.048	-.052	-.058	-.071
3	-.885	-1.307	-1.359	-.042	-.054	-.057	-.077
4	-1.258	-1.632	-1.473	-.051	-.069	-.058	-.043
5	-1.496	-1.775	-1.486	-.018	-.036	-.033	-.069
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.182	-1.429	-1.009	-.455	-.300	-.266	-.243
11	-1.100	-1.278	*000.000	-.343	-.373	-.401	-.435
12	-.808	-.845	-.577	-.116	-.330	-.298	-.280
13	-1.394	-1.047	-.705	-.390	-.371	-.318	-.457
14	-1.557	-1.057	-.577	-.325	-.277	-.260	-.301
15	-.582	-.539	.386	.601	.450	.495	-.147
16	-.657	-.496	.249	.396	.291	.238	-.128
17	-1.513	-1.255	-.495	-.249	-.360	-.276	-.378
18	-2.385	-1.416	-1.232	-.604	-.567	-.569	-.430
19	-3.241	-2.501	-1.426	-.626	-.518	-.502	-.359
20	-3.604	-2.703	-1.459	-.480	-.498	-.587	-.533
21	-3.394	-2.142	-1.175	-.463	-.453	-.467	-.471
22	-2.781	-1.821	-1.043	-.433	-.361	-.366	-.326
23	-1.224	-.858	-.420	-.208	-.235	-.196	-.187
24	-1.039	-.784	-.236	-.294	-.303	-.315	-.244
25	1.048	1.156	.553	-.043	-.058	-.048	-.026
26	.701	1.151	1.047	.227	*000.000	.248	-.047
27	-.009	.595	.794	1.090	1.113	.073	.034
28	-.147	.283	.495	.872	.840	.081	.057
29	-.181	.417	.561	.738	.526	.362	.240
30	.446	1.148	1.142	1.084	.839	.817	-.178
31	.622	1.196	1.132	1.103	.998	1.082	.010
32	.368	.861	.929	.872	.778	.717	.380
33	.092	.570	.671	.669	.506	.385	.090

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.333	-.695	-.781	-.052	-.015	-.045	-.082
2	-.808	-1.441	-1.946	-.070	-.046	-.042	-.043
3	-1.130	-1.898	-1.813	-.049	-.012	-.051	-.035
4	-1.572	-2.023	-1.952	-.060	-.041	-.058	-.080
5	-1.867	-1.956	-1.540	-.034	-.026	-.059	-.108
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.478	-1.818	-1.454	-.843	-.609	-.222	-.236
11	-1.643	-1.390	*000.000	-.495	-.621	-.182	-.178
12	-1.044	-1.122	-.711	-.126	-.851	-.247	-.288
13	-1.548	-1.203	-.882	-.440	-.267	-.177	-.321
14	-1.825	-1.288	-.712	-.416	-.414	-.268	-.262
15	-.862	-.475	.351	.523	.436	.403	-.135
16	-.752	-.170	.224	.321	.299	.163	-.141
17	-1.552	-1.219	-.447	-.231	-.288	-.185	-.245
18	-2.595	-2.086	-1.313	-.636	-.581	-.568	-.508
19	-3.277	-2.803	-1.641	-.740	-.315	-.339	-.467
20	-3.500	-2.588	-1.398	-.512	-.438	-.330	-.345
21	-3.303	-2.188	-1.426	-.354	-.326	-.327	-.330
22	-2.642	-1.700	-1.074	-.482	-.312	-.271	-.307
23	-1.173	-.690	-.503	-.262	-.263	-.311	-.276
24	-.835	-.197	-.224	-.314	-.242	-.248	-.187
25	1.057	1.152	.554	-.044	-.003	-.059	-.038
26	.666	1.167	1.073	.242	*000.000	.264	.019
27	-.029	.701	.910	1.082	1.174	-.017	.091
28	-.174	.312	.458	.910	.718	.133	.116
29	-.242	.444	.551	.881	.473	.269	.124
30	.434	1.141	1.139	1.046	.846	.660	-.144
31	.342	1.165	1.127	1.046	.965	.778	.013
32	.286	.781	.876	.776	.704	.622	.256
33	.102	.476	.594	.528	.406	.297	.087

$\alpha = 65°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.229	-.744	-1.228	-.056	-.075	-.066	-.003
2	-1.018	-1.562	-1.841	-.066	-.076	-.073	-.056
3	-1.367	-1.937	-2.111	-.067	-.063	-.083	-.020
4	-1.868	-2.083	-2.012	-.048	-.085	-.056	-.008
5	-1.970	-2.242	-1.820	-.064	-.059	-.068	-.014
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.545	-1.743	-1.426	-.749	-1.019	-.191	-.183
11	-1.903	-1.677	*000.000	-.618	-.787	-.175	-.154
12	-1.101	-1.104	-.896	-.218	-.794	-.161	-.178
13	-1.588	-1.157	-.503	-.467	-.417	-.168	-.185
14	-1.939	-1.341	-.736	-.383	-.337	-.132	-.259
15	-.741	-.503	.479	.482	.347	.434	-.229
16	-.656	-.214	.256	.274	.204	.117	-.067
17	-1.647	-1.220	-.303	-.248	-.290	-.150	-.189
18	-2.624	-2.200	-1.219	-.584	-.510	-.336	-.447
19	-3.569	-2.720	-1.578	-.619	-.644	-.430	-.244
20	-3.695	-2.674	-1.481	-.464	-.540	-.394	-.454
21	-3.319	-2.287	-1.143	-.501	-.557	-.298	-.300
22	-2.529	-1.701	-1.033	-.354	-.572	-.377	-.340
23	-1.185	-.637	-.509	-.308	-.347	-.341	-.283
24	-.767	-.208	-.135	-.185	-.201	-.257	-.210
25	1.005	1.043	.389	-.051	-.040	-.068	.029
26	.644	1.205	1.104	.256	*000.000	.288	.092
27	-.005	.750	.901	1.116	.852	-.229	-.065
28	-.228	.308	.431	.868	.598	.175	.218
29	-.273	.356	.506	.615	.360	.251	.214
30	.359	1.108	1.063	.968	.689	.563	-.161
31	.507	1.155	1.141	1.020	.833	.728	-.070
32	.282	.820	.936	.712	.586	.546	.170
33	.104	.475	.630	.440	.328	.251	.109

$\alpha = 70°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.012	-.363	-1.044	-.033	-.048	-.015	-.061
2	-1.190	-1.550	-1.898	-.053	-.060	-.013	-.040
3	-1.654	-2.074	-2.160	-.085	-.089	-.043	-.053
4	-1.948	-2.243	-2.090	-.061	-.085	-.048	-.039
5	-2.142	-2.248	-1.644	-.047	-.041	-.047	-.078
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.727	-1.878	-1.265	-.818	-.809	-.134	-.190
11	-1.935	-1.547	*000.000	-.589	-.840	-.116	-.152
12	-1.038	-1.127	-.667	-.211	-.739	-.243	-.234
13	-1.474	-1.042	-.506	-.313	-.304	-.119	-.204
14	-1.529	-1.051	-.492	-.398	-.270	-.163	-.201
15	-.777	-.471	.367	.310	.296	.289	-.097
16	-.742	-.135	.280	.262	.150	.136	-.142
17	-1.649	-1.264	-.448	-.237	-.292	-.198	-.294
18	-2.618	-1.904	-1.062	-.488	-.483	-.302	-.199
19	-3.656	-2.044	-1.276	-.370	-.470	-.360	-.251
20	-3.282	-2.120	-1.271	-.475	-.367	-.346	-.301
21	-2.812	-1.911	-1.144	-.498	-.323	-.228	-.264
22	-2.248	-1.572	-1.009	-.383	-.330	-.291	-.443
23	-1.160	-.684	-.469	-.314	-.304	-.285	-.193
24	-.871	-.217	-.172	-.248	-.221	-.165	-.171
25	.906	.940	.280	-.044	-.075	-.068	-.063
26	.664	1.200	1.119	-.088	*000.000	.286	-.010
27	-.077	.758	.935	1.101	.745	-.242	.031
28	-.234	.324	.446	.971	.529	.144	.204
29	-.321	.333	.473	.544	.271	.201	.190
30	.322	1.155	1.109	.990	.648	.553	-.167
31	.513	1.134	1.095	.801	.795	.627	-.059
32	.241	.772	.895	.555	.436	.476	.180
33	.062	.425	.542	.349	.203	.252	.085

Table 7.- Continued.

(c) $C_{T,s} = 0.60$, $q_s = 21.95$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.030	1.101	.571	-.050	-.051	-.069	-.010
2	.477	.959	.507	-.006	-.066	-.066	-.025
3	.047	.687	.278	.014	-.039	-.026	-.014
4	.291	.301	-.016	-.007	-.042	-.029	.010
5	-.143	-.173	-.397	-.023	-.057	-.041	-.033
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.479	-.679	-.929	-1.468	-1.436	-1.071	-.879
11	-.631	-.928	*000.000	-.990	-1.391	-1.035	-.980
12	-.994	-.750	-.803	-.475	-1.030	-.752	-.661
13	-.480	-.721	-.710	-.472	-.842	-.675	-.543
14	-.645	-.792	-.778	-.744	-.947	-.785	-.598
15	-.074	-.154	.330	.392	.344	.376	-.031
16	.078	.027	.068	.140	.061	.041	.015
17	-.494	-.710	-.481	-.490	-.790	-.487	-.404
18	-1.046	-1.210	-.931	-1.112	-1.400	-1.286	-.798
19	-1.606	-1.695	-1.506	-1.661	-2.000	-1.425	-1.119
20	-1.767	-1.735	-1.423	-1.610	-1.884	-1.684	-1.294
21	-1.713	-1.477	-1.308	-1.440	-1.648	-1.430	-1.116
22	-1.225	-.908	-.672	-.838	-.921	-.925	-.844
23	-.751	-.207	-.229	-.232	-.185	-.266	-.539
24	-.669	-.183	-.217	-.099	-.140	-.194	-.289
25	.539	.550	.323	-.016	-.027	-.042	-.036
26	-.213	-.296	.077	.609	*000.000	.620	.178
27	-.467	-.396	-.090	.543	.557	.321	.290
28	-.228	-.111	.127	.429	.359	.271	.187
29	.079	.300	.311	.496	.463	.437	.351
30	.435	.969	.494	.985	.981	.977	.205
31	.985	1.100	.568	1.035	1.086	1.075	.744
32	.585	.749	.559	.839	.844	.803	.869
33	.234	.453	.375	.613	.552	.499	.064

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.038	1.120	.326	-.083	-.043	-.009	-.048
2	.616	.862	-.011	-.071	-.050	-.025	-.035
3	.404	.340	-.192	-.086	-.050	-.058	-.065
4	-.025	-.150	-.480	-.081	-.072	-.047	-.066
5	-.481	-.662	-.821	-.074	-.059	-.066	-.066
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.630	-.877	-1.025	-1.753	-1.751	-1.353	-1.207
11	-.893	-1.039	*000.000	-1.047	-1.360	-1.265	-1.219
12	-1.115	-.831	-.819	-.480	-1.105	-.838	-.735
13	-.603	-.805	-.770	-.559	-.883	-.702	-.661
14	-.698	-.790	-.684	-.708	-.880	-.702	-.610
15	-.045	-.259	.392	.379	.325	.402	-.129
16	-.004	-.029	.077	.124	.018	.022	-.095
17	-.641	-.834	-.427	-.565	-.883	-.615	-.474
18	-1.373	-1.473	-1.133	-1.247	-1.538	-1.552	-1.042
19	-1.879	-1.894	-1.633	-1.643	-2.017	-1.429	-1.209
20	-2.105	-1.907	-1.574	-1.631	-1.908	-1.797	-1.403
21	-2.027	-1.640	-1.339	-1.308	-1.621	-1.466	-1.186
22	-1.658	-1.028	-.838	-.883	-1.013	-1.080	-.945
23	-.967	-.243	-.273	-.221	-.144	-.236	-.557
24	-.652	-.229	-.188	-.059	-.149	-.170	-.241
25	.788	.840	.421	-.065	-.037	-.030	-.035
26	.221	.190	.474	.463	*000.000	.557	.085
27	-.305	-.186	.126	.675	.601	.554	.501
28	-.150	-.032	.280	.585	.547	.462	.288
29	.082	.334	.414	.625	.555	.564	.349
30	.942	1.074	.548	.968	1.027	.990	.167
31	.966	1.108	.850	1.001	1.082	1.114	.743
32	.606	.791	.676	.866	.900	.855	.874
33	.293	.495	.544	.617	.644	.567	.077

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.037	1.028	.045	-.076	-.079	-.059	-.066
2	.381	.326	-.276	-.067	-.068	-.045	-.055
3	.131	-.037	-.641	-.073	-.055	-.045	-.070
4	-.316	-.543	-.859	-.067	-.062	-.053	-.069
5	-.690	-1.010	-1.208	-.086	-.074	-.068	-.050
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.788	-1.105	-1.218	-2.059	-2.137	-1.701	-1.513
11	-.835	-1.253	*000.000	-1.298	-1.801	-1.425	-1.367
12	-1.308	-.992	-.995	-.592	-1.290	-1.067	-1.001
13	-.736	-.923	-.833	-.592	-.988	-.836	-.775
14	-.876	-.925	-.802	-.788	-.951	-.823	-.736
15	-.072	-.324	.429	.440	.380	.373	-.193
16	-.149	-.081	.094	.080	.008	-.024	-.094
17	-.650	-1.025	-.243	-.696	-.934	-.677	-.565
18	-1.592	-1.713	-1.237	-1.254	-1.527	-1.555	-1.066
19	-2.278	-2.151	-1.848	-1.620	-2.018	-1.478	-1.251
20	-2.521	-2.270	-1.862	-1.664	-2.051	-1.895	-1.516
21	-2.441	-2.097	-1.635	-1.402	-1.785	-1.594	-1.234
22	-2.341	-1.509	-1.129	-.985	-1.065	-1.075	-1.044
23	-1.385	-.383	-.280	-.311	-.159	-.269	-.512
24	-.867	-.267	-.168	-.022	-.094	-.183	-.276
25	.495	1.073	.617	-.068	-.052	-.052	-.071
26	.433	.921	.698	.362	*000.000	.408	-.029
27	.141	.056	.385	.863	1.029	.818	.533
28	-.089	.110	.386	.836	.688	.567	.365
29	.069	.383	.516	.578	.613	.539	.410
30	.822	1.134	.695	.994	1.005	1.015	.105
31	1.001	1.246	.877	1.104	1.176	1.182	.897
32	.572	.825	.738	.993	.880	.834	.821
33	.300	.529	.501	.656	.663	.549	.161

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.818	.590	-.480	-.076	-.082	-.060	-.065
2	.082	-.366	-1.186	-.104	-.089	-.082	-.076
3	-.351	-.822	-1.403	-.109	-.095	-.056	-.085
4	-.725	-1.114	-1.477	-.074	-.064	-.070	-.081
5	-1.084	-1.525	-1.639	-.066	-.065	-.062	-.079
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.087	-1.475	-1.526	-2.551	-2.579	-2.042	-1.821
11	-.976	-1.342	*000.000	-1.390	-1.906	-1.510	-1.464
12	-1.392	-1.075	-1.024	-.607	-1.307	-1.001	-.880
13	-.875	-1.002	-.866	-.771	-.964	-.777	-.693
14	-1.150	-1.082	-.898	-.829	-.981	-.797	-.695
15	-.184	-.363	.401	.456	.418	.379	-.080
16	-.344	-.111	.084	.110	-.003	-.064	-.129
17	-1.194	-1.189	-.716	-.726	-1.005	-.724	-.604
18	-1.943	-1.908	-1.448	-1.369	-1.861	-1.527	-1.093
19	-2.548	-2.316	-2.149	-1.560	-2.009	-1.387	-1.216
20	-3.306	-2.670	-2.239	-1.618	-2.079	-1.865	-1.478
21	-3.172	-2.227	-1.872	-1.355	-1.795	-1.521	-1.248
22	-2.699	-1.544	-1.146	-.931	-1.071	-.963	-.945
23	-1.481	-.342	-.257	-.287	-.199	-.248	-.463
24	-1.131	-.324	-.197	-.051	-.016	-.114	-.230
25	1.073	1.186	.423	-.074	-.059	-.051	-.048
26	.690	.944	.665	-.051	*000.000	.358	-.020
27	.088	.398	.648	.942	1.065	.700	.548
28	.012	.254	.497	.806	.775	.595	.356
29	.037	.449	.606	.691	.673	.551	.395
30	.746	1.205	.976	1.037	1.044	1.059	.048
31	.906	1.169	1.054	1.050	1.057	1.084	.647
32	.545	.880	.814	1.018	.875	.834	.748
33	.253	.573	.624	.675	.665	.545	.210

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.528	.237	-.893	-.076	-.057	-.057	-.050
2	-.419	-.885	-1.784	-.079	-.073	-.078	-.066
3	-.825	-1.473	-2.132	-.084	-.082	-.076	-.069
4	-1.102	-1.655	-2.117	-.039	-.053	-.051	-.071
5	-1.401	-1.968	-2.049	-.057	-.062	-.067	-.060
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.141	-1.657	-1.817	-2.857	-2.728	-1.956	-1.704
11	-1.045	-1.532	*000.000	-1.508	-1.969	-1.325	-1.167
12	-1.594	-1.240	-1.181	-.699	-1.406	-.934	-.841
13	-1.053	-1.143	-1.026	-.875	-1.039	-.731	-.637
14	-1.442	-1.249	-1.004	-.927	-1.124	-.711	-.667
15	-.385	-.426	.319	.513	.421	.410	-.031
16	-.539	-.174	.073	.112	-.029	-.019	-.109
17	-1.341	-1.288	-.804	-.735	-1.034	-.650	-.614
18	-2.171	-1.951	-1.549	-1.342	-1.590	-1.291	-.940
19	-3.459	-2.784	-2.437	-1.705	-1.997	-1.407	-1.191
20	-3.589	-2.727	-2.239	-1.541	-1.747	-1.548	-1.308
21	-3.615	-2.631	-2.049	-1.380	-1.586	-1.435	-1.184
22	-3.137	-1.776	-1.404	-.977	-1.069	-1.043	-.940
23	-1.589	-.473	-.330	-.335	-.267	-.437	-.650
24	-1.409	-.374	-.294	-.039	-.013	-.163	-.270
25	1.233	1.328	.331	-.061	-.063	-.068	-.104
26	.971	1.114	.926	.248	*000.000	.293	-.102
27	.235	.805	.812	.979	1.133	.926	.403
28	.043	.458	.504	.921	.887	.642	.317
29	.039	.487	.555	.879	.671	.523	.355
30	.674	1.257	1.156	1.059	1.044	1.028	-.013
31	.791	1.163	1.107	1.049	1.046	1.044	.327
32	.541	.904	.914	1.081	.872	.855	.598
33	.271	.542	.674	.744	.656	.496	.123

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.137	-.382	-1.679	-.072	-.075	-.004	-.093
2	-1.031	-1.883	-2.649	-.084	-.097	-.045	-.063
3	-1.121	-1.998	-2.497	-.083	-.102	-.022	-.070
4	-1.555	-2.224	-2.348	-.076	-.058	-.002	-.048
5	-1.741	-2.515	-2.519	-.089	-.107	-.010	-.034
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.343	-1.910	-2.082	-3.145	-2.921	-1.873	-1.410
11	-1.272	-1.817	*000.000	-1.745	-2.188	-1.235	-1.019
12	-1.540	-1.248	-1.078	-.676	-1.331	-.519	-.515
13	-1.348	-1.339	-1.044	-.947	-1.164	-.571	-.409
14	-1.734	-1.431	-1.156	-.978	-1.096	-.701	-.622
15	-.548	-.504	.420	.535	.432	.473	-.050
16	-.776	-.210	.089	.110	-.037	.101	-.116
17	-1.572	-1.373	-.741	-.941	-.921	-.404	-.316
18	-2.883	-2.313	-1.812	-1.441	-1.607	-1.068	-.884
19	-3.750	-3.039	-2.550	-1.779	-2.018	-1.147	-.834
20	-4.436	-3.205	-2.569	-1.833	-2.003	-1.317	-.841
21	-4.247	-2.971	-2.258	-1.438	-1.766	-1.109	-.748
22	-3.771	-2.204	-1.508	-1.115	-1.192	-1.000	-.723
23	-1.714	-.501	-.401	-.342	-.303	-.428	-.500
24	-1.615	-.425	-.225	-.020	-.101	-.228	-.380
25	1.120	1.075	.129	-.039	-.046	-.001	-.098
26	1.006	1.283	1.075	-.080	*000.000	.281	-.136
27	.350	.742	.749	.964	1.137	.942	.320
28	.088	.448	.614	1.024	.917	.641	.321
29	-.012	.498	.597	.725	.677	.570	.369
30	.583	1.254	1.274	1.066	.987	1.061	-.017
31	.743	1.234	1.215	1.134	1.071	1.131	.377
32	.504	.903	.987	.958	.876	.928	.549
33	.232	.606	.733	.782	.676	.580	.151

Table 7.- Continued.

(c) $C_{T,s} = 0.60$, $q_s = 21.95$

$\alpha = 35°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	-.123	-.831	-2.328	-.054	-.042	-.130	-.027
2	-1.298	-2.242	-3.410	-.043	-.044	-.124	-.047
3	-1.604	-2.474	-3.417	-.042	-.041	-.091	-.039
4	-1.961	-2.314	-3.386	.004	-.041	-.059	-.031
5	-2.111	-2.440	-2.985	-.020	-.063	-.180	-.062
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.319	-2.111	-2.253	-3.325	-2.951	-1.091	-.643
11	-1.534	-2.096	.000.000	-1.882	-2.294	-.751	-.624
12	-1.638	-1.331	-1.134	-.694	-1.298	-.564	-.496
13	-1.417	-1.335	-1.034	-.829	-.951	-.444	-.454
14	-1.259	-1.440	-1.148	-.934	-.988	-.493	-.483
15	-.787	-.537	.390	.622	.494	.517	-.164
16	-.451	-.259	.078	.118	-.034	.016	-.121
17	-1.410	-1.628	-.933	-.826	-.965	-.483	-.433
18	-2.887	-2.426	-1.777	-1.360	-1.391	-.834	-.655
19	-4.133	-3.268	-2.023	-1.727	-1.651	-.844	-.608
20	-4.722	-3.441	-2.835	-1.668	-1.519	-.662	-.570
21	-4.238	-2.475	-2.179	-1.281	-1.114	-.590	-.554
22	-4.054	-2.517	-2.008	-1.164	-.941	-.631	-.539
23	-1.965	-.969	-.498	-.420	-.464	-.646	-.517
24	-1.072	-.470	-.193	-.105	-.303	-.546	-.442
25	1.049	.924	-.326	-.049	-.043	-.133	-.073
26	1.123	1.351	1.048	.194	.000.000	.126	-.093
27	.471	.983	1.100	1.019	1.204	.791	.321
28	.117	.533	.851	1.030	.923	.393	.317
29	-.035	.563	.673	.868	.717	.490	.367
30	.491	1.215	1.152	1.103	1.019	.823	.010
31	.665	1.249	1.261	1.196	1.111	1.018	.248
32	.423	.921	.970	.961	.875	.681	.472
33	.202	.814	.739	.798	.644	.357	.022

$\alpha = 40°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	-.242	-.948	-2.018	-.065	-.048	-.076	-.136
2	-1.446	-2.242	-3.011	-.069	-.051	-.070	-.029
3	-1.754	-2.481	-2.941	-.067	-.050	-.071	-.044
4	-2.178	-2.934	-3.044	-.053	-.056	-.070	-.050
5	-1.951	-2.588	-2.283	-.061	-.063	-.057	-.093
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.444	-1.821	-1.519	-.689	-.855	-1.011	-.926
11	-1.252	-1.539	.000.000	-.908	-.925	-.732	-.692
12	-.475	-1.042	-.631	-.614	-.752	-.471	-.393
13	-1.295	-1.102	-.704	-.651	-.729	-.482	-.516
14	-1.757	-1.221	-.714	-.823	-.963	-.449	-.479
15	-.858	-.551	.477	.610	.432	.473	-.092
16	-.787	-.118	.183	.227	.101	.085	-.125
17	-1.699	-1.362	-.850	-.649	-.758	-.265	-.488
18	-2.524	-1.768	-1.030	-.969	-1.132	-.791	-.620
19	-3.538	-2.400	-1.174	-1.146	-1.101	-.654	-.633
20	-4.139	-2.762	-1.349	-.959	-.850	-.621	-.608
21	-4.291	-2.407	-.913	-.662	-.759	-.555	-.550
22	-3.472	-1.619	-.584	-.706	-.542	-.493	-.502
23	-1.695	-.780	-.528	-.553	-.408	-.395	-.402
24	-.895	-.436	-.381	-.447	-.402	-.382	-.322
25	1.014	.895	-.393	-.055	-.038	-.019	-.122
26	1.094	1.278	1.154	.164	.000.000	.147	-.219
27	.931	.956	1.105	1.050	1.118	.676	.255
28	.174	.599	.749	1.045	.941	.445	.295
29	-.023	.544	.682	.768	.649	.472	.264
30	.440	1.224	1.209	1.106	.982	.972	.071
31	.691	1.240	1.266	1.142	1.040	1.025	.238
32	.445	.956	1.043	.983	.868	.788	.502
33	.255	.563	.674	.660	.522	.360	-.041

$\alpha = 45°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	-.581	-1.248	-2.371	-.054	-.028	-.056	-.103
2	-1.414	-2.349	-3.273	-.038	-.029	-.049	-.044
3	-2.121	-2.778	-3.212	-.041	-.006	-.059	-.068
4	-2.261	-2.796	-2.794	-.041	-.019	-.050	-.038
5	-2.273	-2.830	-2.447	-.033	-.010	-.051	-.048
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.569	-1.884	-1.360	-.471	-.600	-.604	-.548
11	-1.493	-1.647	.000.000	-.696	-.963	-.418	-.520
12	-.903	-.988	-.615	-.446	-.553	-.400	-.405
13	-1.353	-1.062	-.648	-.537	-.448	-.336	-.425
14	-1.741	-1.095	-.739	-.552	-.430	-.363	-.523
15	-.693	-.507	.436	.603	.451	.442	-.009
16	-.488	-.059	.249	.287	.237	.152	-.178
17	-1.624	-1.116	-.514	-.380	-.466	-.273	-.422
18	-2.455	-1.734	-1.033	-.817	-.951	-.575	-.567
19	-3.558	-2.247	-1.251	-.864	-.763	-.711	-.607
20	-4.296	-2.434	-1.950	-.805	-.575	-.532	-.769
21	-3.761	-1.766	-.735	-.550	-.519	-.467	-.503
22	-3.443	-1.577	-.723	-.555	-.504	-.551	-.632
23	-1.668	-.738	-.600	-.459	-.351	-.360	-.407
24	-.892	-.424	-.476	-.434	-.344	-.379	-.339
25	.884	.619	-.416	-.042	-.030	-.069	-.063
26	1.128	1.192	1.171	.128	.000.000	.109	-.171
27	.536	1.017	1.130	1.068	1.159	.587	.250
28	.146	.639	.790	1.026	.919	.394	.341
29	-.057	.564	.636	.810	.657	.470	.417
30	.586	1.247	1.268	1.183	1.055	.860	.013
31	.605	1.266	1.245	1.182	1.047	1.081	.228
32	.423	.898	.941	.930	.747	.714	.483
33	.212	.601	.689	.685	.537	.346	.041

$\alpha = 50°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	-1.109	-2.375	-3.714	-.041	-.055	-.015	-.065
2	-2.582	-3.661	-4.445	-.058	-.027	-.033	-.070
3	-2.749	-3.416	-4.398	-.053	-.048	-.028	-.045
4	-2.742	-3.631	-3.900	-.064	-.056	-.073	-.070
5	-2.561	-3.306	-3.142	-.032	-.055	-.035	-.040
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.494	-2.221	-1.913	-.991	-1.076	-.516	-.601
11	-1.652	-1.882	.000.000	-.860	-1.639	-.381	-.493
12	-1.293	-1.196	-.737	-.470	-.887	-.331	-.388
13	-1.551	-.984	-.603	-.611	-.484	-.292	-.426
14	-1.812	-.924	-.460	-.651	-.520	-.271	-.460
15	-.696	-.516	.497	.648	.431	.510	-.000
16	-.987	-.102	.256	.256	.191	.199	-.144
17	-1.665	-1.276	-.689	-.509	-.498	-.286	-.479
18	-2.476	-2.018	-1.172	-1.052	-.829	-.761	-.785
19	-3.477	-2.611	-1.611	-.900	-.992	-.466	-.728
20	-3.762	-1.739	-.994	-.887	-.674	-.447	-.678
21	-3.523	-1.667	-.889	-.695	-.523	-.488	-.564
22	-3.070	-1.496	-.783	-.595	-.556	-.416	-.503
23	-1.489	-.681	-.511	-.440	-.457	-.377	-.479
24	-.821	-.323	-.263	-.330	-.349	-.321	-.345
25	.724	.212	-.747	-.037	-.051	-.019	-.072
26	1.111	1.303	1.108	.100	.000.000	.116	-.182
27	.545	1.148	1.232	1.124	1.152	.083	.141
28	.116	.674	.818	1.121	.866	.380	.352
29	-.121	.560	.709	.785	.557	.425	.376
30	.277	1.187	1.177	1.136	.955	.783	-.120
31	.545	1.248	1.249	1.150	1.033	.957	.180
32	.412	.917	1.003	1.044	.738	.678	.396
33	.212	.531	.665	.656	.457	.366	.054

Table 7.- Concluded.

(d) $C_{T,s} = 0.30$, $q_s = 19.43$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.014	1.077	.604	-.070	-.078	-.099	-.114
2	.529	.575	.102	-.051	-.037	-.131	0.
3	.334	.220	-.240	-.061	-.075	-.098	-.090
4	-.070	-.244	-.543	-.074	-.083	-.154	-.109
5	-.476	-.742	-1.172	-.062	-.083	-.092	-.077
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-.703	-1.039	-1.343	-1.040	-1.562	-1.414	-1.343
11	-.369	-1.247	.000,000	-1.510	-1.673	-1.475	-1.421
12	-1.430	-1.012	-1.084	-.950	-1.276	-1.165	-1.050
13	-.711	-.964	-.951	-.914	-1.103	-1.040	-.926
14	-.804	-.940	-.787	-.924	-1.094	-1.023	-.881
15	-.067	-.003	.192	.326	.255	.175	-.169
16	-.046	-.055	-.095	.041	-.049	-.151	-.243
17	-.767	-.937	-.569	-.692	-.870	-.733	-.606
18	-1.442	-1.586	-1.087	-1.361	-1.615	-1.704	-1.098
19	-2.105	-2.047	-1.628	-1.811	-2.138	-1.611	-1.340
20	-2.349	-2.104	-1.562	-1.873	-2.061	-1.969	-1.508
21	-2.294	-1.791	-1.178	-1.554	-1.954	-1.441	-1.294
22	-2.050	-1.283	-.806	-1.008	-1.023	-1.046	-.988
23	-1.504	-.349	.289	-.341	-.261	-.374	-.643
24	-.804	-.282	.276	-.168	-.168	-.301	-.310
25	.676	.752	.564	-.073	-.064	-.070	-.139
26	.040	.088	.346	.509	.000,000	.486	.173
27	-.335	-.237	-.104	.513	.480	.296	.303
28	-.120	-.087	.095	.251	.278	.182	.158
29	.059	.300	.332	.423	.476	.432	.334
30	.741	1.029	.476	.957	.924	.848	.317
31	.943	1.068	.860	1.003	1.006	.964	.699
32	.943	.776	.489	.836	.815	.700	.817
33	.247	.488	.375	.580	.542	.457	.199

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.864	.895	-.123	-.082	-.081	-.110	-.113
2	.137	-.033	-.305	-.093	-.093	-.089	-.047
3	-.134	-.402	-1.079	-.083	-.093	-.088	-.043
4	-.829	-.998	-1.949	-.075	-.090	-.071	-.035
5	-1.470	-1.325	-1.762	-.024	-.043	-.062	-.014
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-1.069	-1.535	-1.943	-2.312	-2.363	-2.030	-1.911
11	-1.134	-1.478	.000,000	-1.640	-1.955	-1.718	-1.641
12	-1.664	-1.181	-1.165	-.750	-1.433	-1.291	-1.258
13	-.885	-1.060	-.997	-.888	-1.128	-1.050	-.956
14	-1.049	-1.058	-.945	-.932	-1.095	-1.020	-.818
15	-.221	-.177	.230	.351	.259	.274	-.251
16	-.265	-.047	0.	.042	-.071	-.135	-.220
17	-1.040	-1.140	-.835	-.735	-1.038	-.802	-.742
18	-1.809	-1.777	-1.318	-1.372	-1.641	-1.706	-1.201
19	-2.429	-2.530	-2.015	-2.032	-2.382	-1.772	-1.561
20	-2.715	-2.190	-1.866	-1.650	-1.870	-1.769	-1.398
21	-3.107	-2.296	-1.676	-1.526	-1.917	-1.489	-1.278
22	-2.547	-1.378	-.904	-1.046	-1.138	-.921	-.925
23	-1.495	-.347	-.300	-.332	-.237	-.379	-.517
24	-1.140	-.357	-.347	-.130	-.286	-.252	-.406
25	.947	1.208	.582	-.057	-.053	-.089	-.008
26	.466	.595	.582	-.030	.000,000	.367	.138
27	-.049	.154	.325	.419	.781	.686	.632
28	-.100	.095	.300	.552	.539	.498	.411
29	.080	.355	.417	.533	.539	.471	.430
30	.734	1.231	.610	1.020	1.005	.996	.414
31	.855	1.199	.726	1.057	1.033	1.032	.870
32	.527	.804	.608	1.036	.747	.699	.838
33	.252	.523	.439	.624	.558	.449	.264

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.583	.407	-1.077	-.064	-.071	-.053	-.028
2	-.390	-.878	-2.098	-.092	-.109	-.107	-.120
3	-.845	-1.230	-2.260	-.077	-.078	-.059	-.041
4	-1.129	-1.749	-2.510	-.062	-.049	-.062	-.047
5	-1.312	-1.973	-2.418	-.091	-.081	-.075	-.077
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-1.270	-1.494	-2.225	-2.732	-2.741	-2.392	-2.243
11	-1.175	-1.718	.000,000	-1.713	-2.165	-1.919	-1.918
12	-1.662	-1.203	-1.150	-.718	-1.414	-1.270	-1.223
13	-1.067	-1.208	-1.075	-.939	-1.173	-1.129	-.960
14	-1.379	-1.243	-1.038	-.958	-1.135	-1.049	-.904
15	-.368	-.289	.344	.459	.325	.305	-.282
16	-.459	-.121	.040	.110	-.041	-.132	-.171
17	-1.323	-1.283	-.719	-.721	-1.063	-.881	-.641
18	-2.155	-1.971	-1.423	-1.356	-1.544	-1.491	-1.211
19	-3.072	-2.524	-2.122	-1.783	-1.988	-1.691	-1.413
20	-3.236	-2.400	-2.232	-1.647	-1.881	-2.066	-1.643
21	-3.642	-2.342	-1.800	-1.378	-1.536	-1.648	-1.230
22	-3.242	-1.574	-1.122	-.977	-.918	-1.195	-.949
23	-1.739	-.430	-.302	-.268	-.255	-.246	-.579
24	-1.294	-.327	-.294	-.103	-.202	-.232	-.308
25	1.075	1.224	.154	-.064	-.075	-.063	-.060
26	.822	1.059	.809	-.064	.000,000	.351	.101
27	.188	.408	.545	.825	.988	.890	.803
28	-.007	.196	.496	.659	.866	.642	.498
29	.162	.395	.505	.684	.844	.629	.551
30	.862	1.282	.822	1.038	.983	.998	.321
31	.827	1.250	.914	1.115	1.056	1.024	.898
32	.592	.883	.720	1.059	.830	.754	.798
33	.301	.550	.543	.624	.582	.535	.031

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.121	-.689	-2.340	-.116	-.099	-.099	-.108
2	-1.275	-2.096	-3.732	-.116	-.084	-.098	-.089
3	-1.634	-2.658	-3.890	-.101	-.115	-.101	-.078
4	-1.975	-2.823	-3.613	-.088	-.108	-.078	-.094
5	-1.920	-2.805	-3.241	-.067	-.045	-.058	-.010
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-1.675	-2.342	-2.708	-3.438	-3.293	-2.898	-2.761
11	-1.581	-2.213	.000,000	-2.096	-2.669	-2.409	-2.360
12	-1.993	-1.420	-1.319	-.838	-1.547	-1.415	-1.338
13	-1.358	-1.414	-1.196	-1.077	-1.276	-1.198	-1.111
14	-1.775	-1.400	-1.148	-1.033	-1.165	-1.101	-.951
15	-.435	-.362	.399	.513	.384	.307	-.189
16	-.525	-.218	.035	.047	-.109	-.188	-.190
17	-1.722	-1.430	-.776	-.792	-1.114	-.909	-.714
18	-2.547	-2.342	-1.738	-1.503	-1.624	-1.731	-1.347
19	-3.082	-3.022	-2.429	-1.932	-1.892	-1.811	-1.493
20	-3.809	-3.174	-2.476	-1.862	-1.833	-1.977	-1.570
21	-3.442	-2.688	-1.943	-1.308	-1.165	-1.493	-1.238
22	-3.130	-2.067	-1.386	-1.031	-.941	-1.274	-1.107
23	-1.924	-.489	-.338	-.318	-.260	-.369	-.613
24	-1.788	-.346	-.278	-.146	-.199	-.219	-.321
25	1.083	1.144	-.428	-.093	-.076	-.096	-.047
26	.995	1.212	.752	.280	.000,000	.288	.053
27	.402	.729	.869	.980	1.057	.956	.711
28	.112	.419	.622	.906	.869	.773	.609
29	.021	.494	.617	.710	.697	.652	.547
30	.547	1.244	1.045	1.001	.947	.927	.347
31	.721	1.275	1.023	1.080	1.043	1.018	.857
32	.543	1.004	.905	1.171	.934	.864	.872
33	.247	.601	.642	.696	.627	.539	.116

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.215	-.675	-2.254	-.061	-.039	-.075	-.125
2	-1.807	-2.414	-3.826	-.088	-.076	-.083	-.125
3	-1.752	-2.375	-3.015	-.099	-.087	-.111	-.123
4	-1.474	-2.642	-2.958	-.047	-.051	-.060	-.075
5	-1.495	-2.674	-2.590	-.098	-.080	-.100	-.117
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-1.380	-2.101	-1.872	-.840	-.646	-2.590	-2.581
11	-1.140	-1.520	.000,000	-.610	-.507	-1.749	-1.751
12	-1.220	-1.192	-.760	-.614	-.869	-1.391	-1.382
13	-1.278	-1.240	-.941	-1.095	-.646	-1.144	-1.156
14	-1.435	-1.119	-.796	-.716	-.599	-.992	-1.005
15	-.340	-.194	.351	.488	.371	.329	-.407
16	-.225	-.148	.070	-.019	-.195	-.178	-.355
17	-1.614	-1.211	-.594	-.725	-.749	-.707	-.755
18	-2.473	-2.192	-1.414	-1.130	-1.277	-1.700	-1.464
19	-3.400	-2.813	-1.442	-1.107	-1.036	-1.608	-1.560
20	-4.557	-3.039	-1.472	-1.121	-.999	-1.578	-1.910
21	-4.556	-2.555	-1.047	-1.105	-.903	-1.167	-1.432
22	-4.004	-2.135	-1.148	-.651	-.705	-.979	-1.325
23	-2.223	-.663	-.611	-.496	-.538	-.721	-1.101
24	-1.910	-.236	-.582	-.384	-.603	-.615	-.574
25	.442	.975	-.410	-.070	-.034	-.067	-.117
26	1.068	1.260	.672	-.038	.000,000	.270	.013
27	.398	.644	.938	1.004	1.019	.978	.793
28	.178	.441	.654	.955	.742	.701	.507
29	.047	.558	.642	.904	.691	.643	.529
30	.514	1.245	1.167	.982	.902	.842	.282
31	.641	1.243	1.140	1.026	.970	.908	.811
32	.470	.874	.878	.836	.727	.669	.672
33	.384	.678	.709	.666	.566	.533	0.

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.886	-1.392	-2.698	-.139	-.034	-.101	-.076
2	-2.448	-3.169	-4.142	-.093	-.070	-.078	-.082
3	-2.379	-3.108	-3.675	-.132	-.018	-.078	-.066
4	-2.605	-3.303	-3.455	-.141	-.007	-.061	-.079
5	-2.436	-3.329	-3.181	-.092	-.055	-.082	-.100
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-1.781	-2.408	-2.274	-.696	-.796	-2.712	-2.678
11	-1.229	-1.552	.000,000	-.637	-.595	-1.875	-1.869
12	-.978	-1.124	-.685	-.406	-.604	-1.415	-1.402
13	-1.354	-1.140	-.809	-.731	-.703	-1.163	-1.180
14	-1.736	-1.237	-.949	-1.078	-.640	-.947	-.984
15	-.603	-.341	.365	.538	.454	.345	-.359
16	-.426	-.217	.197	.250	.172	-.069	-.317
17	-1.561	-1.389	-.847	-.685	-.788	-.848	-.895
18	-3.150	-2.398	-1.670	-1.221	-1.261	-1.650	-1.435
19	-4.119	-3.089	-1.981	-1.580	-1.404	-1.708	-1.618
20	-4.345	-2.757	-1.311	-1.003	-.819	-1.449	-1.524
21	-4.360	-2.327	-.935	-.718	-.842	-1.222	-1.359
22	-3.480	-1.664	-.780	-.711	-.815	-.920	-1.149
23	-2.100	-1.000	-.994	-.542	-.674	-.659	-.901
24	-1.187	-.352	-.526	-.585	-.562	-.498	-.592
25	.732	.671	-.772	-.344	-.057	-.079	-.076
26	1.179	1.340	.975	-.273	.000,000	.229	.038
27	.695	1.042	1.061	1.027	1.082	1.015	.714
28	.329	.679	.815	1.158	.935	.852	.688
29	.077	.628	.647	.703	.745	.631	.561
30	.538	1.241	1.205	.939	.957	.893	.600
31	.714	1.335	1.280	1.084	1.108	.975	.880
32	.548	.974	.973	1.105	.870	.742	.699
33	.351	.845	.867	.809	.537	.455	.101

Table 8.- Pressure coefficients for wing with propeller rotation down at tip, basic leading edge, fences on, $\delta_f = 60°$.

(a) $C_{T,S} = 0.90$, $q_s = 20.22$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.032	.914	.165	-.097	.350	.873	-.211
2	1.079	1.212	.446	-.666	-.572	-.102	-.290
3	.874	1.175	1.034	-.813	-.819	-.350	-.604
4	.543	.662	.977	-1.068	-1.074	-.751	-.541
5	.182	.461	.570	-1.180	-1.286	-.970	-.584
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.165	-.190	-.238	-1.101	-.903	-.578	-.289
11	-.314	-.606	*000.000	-.937	-1.074	-.605	-.344
12	-.547	-.550	-.592	-.479	-.802	-.409	-.309
13	-.284	-.613	-.800	-.671	-.758	-.427	-.289
14	-.352	-.606	-.606	-.704	-.734	-.477	-.310
15	-.153	-.646	.010	-.062	-.033	.067	-.031
16	-.866	-1.173	-1.243	-1.578	-1.814	-1.548	-.869
17	-1.435	-1.863	-1.931	-2.129	-2.610	-1.792	-1.149
18	-1.576	-1.950	-2.162	-2.503	-2.852	-2.327	-1.367
19	-1.520	-1.797	-1.975	-2.352	-2.874	-2.500	-1.381
20	-1.105	-.884	-1.199	-1.588	-2.067	-1.743	-1.097
21	-.701	-.495	-.600	-.620	-1.239	-1.404	-.882
22	-.402	-.301	-.363	-.374	-.480	-.962	-.719
23	-.310	-.258	-.301	-.265	-.266	-.381	-.472
24	-.378	-.232	-.270	-.280	-.322	-.082	-.237
25	-.082	-.413	-1.288	.619	1.104	1.218	.331
26	-.557	-1.265	-1.411	.608	*000.000	.940	.602
27	-.741	-.776	-.742	.696	.598	.224	.414
28	-.121	-.168	.057	.540	.483	.256	.282
29	.018	.527	.474	.490	.608	.605	.608
30	.428	.507	.596	.684	.766	.802	.147
31	.466	.624	.714	.947	1.122	1.004	.888
32	.987	.954	.740	.927	1.010	1.034	1.084
33	.810	.814	.704	.742	.808	.781	.680

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.082	1.020	.360	-.546	-.014	.680	-.351
2	.948	1.152	.872	-1.161	-.920	-.204	-.746
3	.853	1.061	.901	-1.261	-1.230	-.606	-.715
4	.476	.731	.827	-1.244	-1.411	-.854	-.740
5	.113	.305	.429	-1.445	-1.561	-1.097	-.673
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.223	-.238	-.349	-1.208	-1.033	-.660	-.420
11	-.357	-.681	*000.000	-.915	-1.094	-.586	-.416
12	-.534	-.505	-.530	-.476	-.703	-.389	-.339
13	-.307	-.587	-.592	-.665	-.660	-.461	-.353
14	-.381	-.570	-.628	-.665	-.635	-.479	-.330
15	-.141	-.624	-.046	-.067	-.031	-.107	-.075
16	-1.119	-1.311	-1.220	-1.506	-1.746	-1.557	-.988
17	-1.573	-1.744	-1.746	-2.047	-2.269	-1.801	-1.201
18	-1.746	-1.942	-1.958	-2.099	-2.469	-1.965	-1.241
19	-1.766	-1.674	-1.941	-2.077	-2.424	-2.198	-1.276
20	-1.324	-1.015	-1.187	-1.480	-1.703	-1.801	-1.160
21	-.428	-.472	-.553	-.622	-1.006	-1.256	-.989
22	-.616	-.385	-.434	-.298	-.350	-.932	-.755
23	-.411	-.245	-.267	-.200	-.283	-.293	-.544
24	-.441	-.251	-.269	-.159	-.221	-.246	-.269
25	.127	-.090	.696	.335	.875	1.093	.261
26	-.376	-.881	-.957	.696	*000.000	.974	.718
27	-.544	-.540	-.412	.702	.643	.365	.413
28	-.124	-.074	.042	.575	.514	.326	.275
29	.096	.532	.494	.570	.661	.601	.589
30	-.243	.483	.579	.738	.742	.720	.051
31	.898	.647	.705	1.004	1.093	1.019	.997
32	.849	1.074	.773	.906	1.003	.993	.996
33	.567	.786	.598	.738	.793	.709	.645

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.053	1.085	.555	-1.260	-.538	.398	-.687
2	.916	1.066	.857	-1.855	-1.443	-.462	-.648
3	.730	.954	.848	-1.988	-1.775	-.822	-.888
4	.346	.550	.852	-1.958	-1.876	-1.119	-.875
5	.007	.108	.318	-1.717	-1.805	-1.200	-.705
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.301	-.395	-.416	-1.198	-1.188	-.659	-.444
11	-.413	-.726	*000.000	-.981	-1.183	-.563	-.446
12	-.738	-.616	-.594	-.550	-.797	-.371	-.320
13	-.373	-.619	-.525	-.572	-.630	-.366	-.306
14	-.449	-.658	-.591	-.618	-.647	-.458	-.407
15	-.161	-.697	-.006	-.072	.007	.040	-.013
16	-1.197	-1.519	-1.202	-1.412	-1.567	-1.480	-.949
17	-1.769	-2.295	-1.978	-2.012	-2.187	-1.666	-1.220
18	-1.987	-2.313	-2.068	-2.143	-2.433	-2.196	-1.203
19	-1.923	-2.119	-1.936	-2.093	-2.351	-2.109	-1.179
20	-1.517	-1.472	-1.107	-1.337	-1.530	-1.534	-1.006
21	-1.187	-.751	-.549	-.589	-.895	-1.225	-.875
22	-.819	-.378	-.412	-.288	-.409	-.827	-.738
23	-.819	-.329	-.269	-.200	-.203	-.308	-.511
24	-.556	-.314	-.275	-.196	-.234	-.405	-.198
25	.274	.180	-.441	.029	.799	1.225	.321
26	-.303	-.618	-.447	.794	*000.000	1.024	.505
27	-.593	-.474	-.325	.837	.794	.425	.300
28	-.139	-.086	.157	.649	.557	.294	.238
29	.082	.443	.531	.583	.643	.615	.573
30	.051	.517	.638	.784	.776	.793	.064
31	.976	.845	.946	.970	.999	1.025	.886
32	.845	1.043	.821	.945	1.013	1.009	.936
33	.547	.749	.622	.741	.762	.735	.670

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.104	1.187	.638	-1.893	-1.110	.107	-.736
2	.961	1.046	.848	-2.043	-1.998	-.890	-1.498
3	.626	.825	.793	-2.060	-2.438	-1.029	-1.295
4	.255	.922	.535	-2.431	-2.196	-1.340	-1.220
5	-.136	-.043	.161	-2.156	-2.203	-1.373	-1.024
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.346	-.484	-.510	-1.258	-1.341	-.773	-.516
11	-.479	-.825	*000.000	-1.042	-1.338	-.734	-.578
12	-.809	-.707	-.694	-.608	-.870	-.474	-.338
13	-.449	-.713	-.543	-.591	-.665	-.376	-.384
14	-.589	-.754	-.680	-.502	-.675	-.490	-.347
15	-.187	-.722	-.083	-.061	-.041	.026	.044
16	-1.357	-1.618	-1.343	-1.544	-1.680	-1.427	-.884
17	-1.916	-2.466	-1.968	-1.899	-2.185	-1.727	-1.218
18	-2.180	-2.657	-2.287	-2.159	-2.419	-2.212	-1.441
19	-2.023	-2.500	-2.128	-2.097	-2.414	-2.132	-1.372
20	-1.800	-1.944	-1.157	-1.397	-1.646	-1.616	-1.152
21	-1.438	-.783	-.422	-.631	-.904	-1.115	-.921
22	-1.079	-.418	-.416	-.181	-.373	-.893	-.816
23	-.801	-.365	-.311	-.163	-.296	-.263	-.442
24	-.548	-.291	-.277	-.161	-.253	-.255	-.224
25	.442	.418	-.108	-.507	.504	1.100	.030
26	-.101	-.381	-.417	.773	*000.000	.908	.571
27	-.524	-.380	-.249	.897	.875	.478	.498
28	-.135	-.038	.158	.754	.627	.331	.221
29	.052	.472	.581	.697	.701	.616	.581
30	.096	.528	.610	.823	.741	.728	.150
31	.967	1.047	.758	1.049	1.049	1.050	.643
32	.810	.996	.936	.940	.943	.928	.745
33	.536	.771	.740	.769	.797	.734	.604

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.123	1.200	.911	-2.700	-1.565	-.018	-1.138
2	.809	.952	.786	-3.360	-2.582	-.995	-1.610
3	.576	.742	.735	-3.214	-2.814	-1.502	-1.520
4	.198	.622	.441	-3.010	-2.671	-1.519	-1.340
5	-.227	-.147	-.021	-2.451	-2.479	-1.583	-1.016
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.448	-.562	-.840	-1.666	-1.505	-.739	-.556
11	-.502	-.864	*000.000	-1.097	-1.328	-.619	-.503
12	-.810	-.693	-.701	-.581	-.802	-.406	-.340
13	-.524	-.755	-.711	-.689	-.666	-.368	-.337
14	-.560	-.608	-.637	-.531	-.667	-.475	-.451
15	-.278	-.738	-.075	-.083	.017	.186	.109
16	-1.510	-1.977	-1.427	-1.476	-1.479	-1.375	-.900
17	-2.157	-2.998	-2.237	-2.003	-2.102	-1.703	-1.108
18	-2.390	-3.015	-2.446	-2.050	-2.384	-2.345	-1.456
19	-2.404	-2.886	-2.275	-2.006	-2.404	-1.914	-1.242
20	-1.916	-2.009	-1.545	-1.364	-1.662	-1.609	-1.261
21	-1.787	-.994	-.749	-.950	-1.256	-1.333	-1.103
22	-1.237	-.495	-.383	-.329	-.428	-.847	-.811
23	-.698	-.340	-.292	-.365	-.237	-.346	-.492
24	-.603	-.389	-.370	-.236	-.263	-.134	-.137
25	.517	.837	.090	-1.081	.203	.982	-.319
26	-.009	-.049	-.295	.604	*000.000	1.031	.355
27	-.498	-.264	-.172	.474	.543	.574	.324
28	-.143	0.	.192	.883	.652	.428	.181
29	.031	.481	.548	.803	.641	.641	.539
30	.210	.721	.606	.740	.771	.771	.108
31	.924	1.134	.732	.939	.977	1.037	.449
32	.835	1.090	.946	.960	.977	1.028	.804
33	.532	.787	.744	.790	.803	.786	.564

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.092	1.189	.891	-3.448	-2.155	-.373	-1.388
2	.847	.765	.772	-3.824	-2.914	-1.452	-1.700
3	.336	.482	.673	-3.980	-3.335	-1.763	-1.784
4	.910	.116	.322	-3.789	-3.300	-2.040	-1.634
5	-.357	-.352	-.074	-2.824	-2.767	-1.783	-1.228
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.500	-.678	-.665	-1.712	-1.570	-.836	-.611
11	-.538	-.916	*000.000	-1.044	-1.269	-.671	-.508
12	-.933	-.785	-.715	-.544	-.889	-.453	-.431
13	-.661	-.856	-.721	-.635	-.679	-.377	-.324
14	-.759	-.912	-.751	-.711	-.737	-.430	-.340
15	-.411	-.733	-.120	-.090	-.012	.030	.001
16	-1.884	-2.384	-1.747	-1.810	-1.820	-1.627	-1.067
17	-2.667	-3.320	-2.912	-1.923	-2.478	-1.684	-1.168
18	-2.894	-3.391	-2.811	-2.078	-2.343	-1.852	-1.347
19	-2.716	-3.295	-2.786	-2.003	-2.643	-2.004	-1.273
20	-2.277	-2.351	-1.849	-1.461	-2.035	-1.500	-1.129
21	-2.008	-1.407	-.939	-.874	-1.002	-1.166	-1.043
22	-1.432	-.628	-.518	-.845	-.655	-.746	-.870
23	-.728	-.407	-.340	-.260	-.262	-.235	-.471
24	-.743	-.400	-.298	-.177	-.206	-.190	-.200
25	.576	.741	.441	-1.378	-.023	.861	-.583
26	.058	.108	.184	.662	*000.000	1.037	.256
27	-.442	-.192	.020	.944	.932	.616	.203
28	-.173	.021	.242	.885	.634	.359	.159
29	.043	.474	.607	.738	.692	.604	.505
30	.192	.695	.691	.728	.741	.774	.284
31	.921	1.141	.976	.841	1.002	1.036	.386
32	.685	.997	.960	.892	.923	.942	.838
33	.508	.728	.735	.831	.766	.734	.575

Table 8.- Continued.

(a) $C_{T,S} = 0.90$, $q_s = 20.22$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.023	1.147	.787	-3.785	-2.365	-.603	-1.627
2	.593	.632	.709	-4.626	-3.429	-1.707	-1.887
3	.324	.367	.330	-4.421	-3.656	-2.172	-2.035
4	-.140	-.057	.150	-4.174	-3.593	-2.150	-1.791
5	-.479	-.508	-.341	-3.264	-3.042	-1.903	-1.390
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-.590	-.780	-.874	-1.840	-1.724	-.956	-.716
11	-.624	-.965	.000,000	-1.071	-1.289	-.652	-.554
12	-1.022	-.828	-.842	-.514	-.797	-.533	-.457
13	-.714	-.877	-.817	-.660	-.717	-.462	-.396
14	-.473	-.914	-.818	-.594	-.654	-.484	-.379
15	-.535	-.695	-.201	-.087	-.010	.083	-.020
16	-1.959	-2.232	-1.687	-1.466	-1.626	-1.137	-.751
17	-2.780	-3.379	-2.715	-1.836	-2.474	-1.873	-1.222
18	-3.179	-3.480	-2.779	-1.887	-2.786	-2.218	-1.469
19	-3.210	-3.475	-2.589	-1.797	-2.690	-1.985	-1.213
20	-2.576	-2.565	-1.917	-1.244	-2.001	-1.621	-1.238
21	-2.313	-1.823	-1.236	-1.010	-1.664	-1.305	-1.046
22	-1.617	-.719	-.496	-.607	-.747	-.604	-.820
23	-.902	-.576	-.402	-.318	-.262	-.260	-.408
24	-.840	-.653	-.355	-.235	-.215	-.226	-.159
25	.674	.907	.556	-1.808	-.302	.757	-.938
26	.147	.371	.493	.602	.000,000	1.121	.025
27	-.407	-.020	.125	.972	.991	.621	.288
28	-.175	.068	.275	.977	.714	.391	.114
29	.002	.493	.567	.730	.674	.550	.433
30	.132	.741	.665	.827	.798	.810	.308
31	.826	1.133	.943	1.017	.979	1.016	.362
32	.737	1.032	.968	1.015	.946	.928	.847
33	.451	.751	.702	.863	.752	.709	.568

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.032	1.052	.653	-4.547	-3.019	-.935	-2.244
2	.439	.401	.310	-4.919	-3.789	-1.965	-2.135
3	.204	.102	.116	-4.892	-4.097	-2.271	-2.084
4	-.237	-.320	-.336	-4.317	-3.754	-2.436	-1.896
5	-.547	-.697	-.623	-3.260	-3.040	-1.844	-1.234
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-.631	-.886	-.981	-1.797	-1.788	-.943	-.714
11	-.673	-1.076	.000,000	-.980	-1.463	-.851	-.662
12	-1.046	-.862	-.757	-.476	-.856	-.473	-.420
13	-.797	-.928	-.777	-.684	-.701	-.425	-.356
14	-1.045	-1.071	-.943	-.700	-.761	-.408	-.350
15	-.821	-.642	-.231	-.055	-.117	.090	.034
16	-2.194	-2.329	-1.770	-1.364	-1.684	-1.236	-.697
17	-3.176	-3.529	-2.622	-1.660	-2.444	-1.610	-1.079
18	-3.599	-3.711	-2.805	-1.904	-2.594	-1.920	-1.278
19	-3.485	-3.407	-2.490	-1.915	-2.558	-1.557	-.844
20	-3.031	-2.386	-2.017	-1.516	-2.165	-1.449	-.912
21	-2.598	-1.851	-.870	-.936	-1.547	-1.044	-.652
22	-1.572	-.868	-.507	-.729	-.567	-.591	-.651
23	-.976	-.571	-.359	-.340	-.202	-.263	-.437
24	-.908	-.616	-.348	-.287	-.178	-.210	-.117
25	.761	1.052	.878	-2.065	-.615	.391	-1.371
26	.261	.616	.849	.460	.000,000	1.013	-.039
27	-.331	.108	.320	.963	.971	.592	.101
28	-.146	.120	.363	.830	.685	.248	.156
29	-.029	.467	.556	.792	.636	.531	.383
30	.138	.738	.647	.749	.736	.711	.360
31	.814	1.108	.959	.991	.922	.974	.329
32	.743	1.038	1.018	.964	.889	.918	.819
33	.443	.712	.723	.851	.715	.670	.473

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.918	.880	.501	-4.641	-3.203	-1.423	-2.803
2	.306	.243	-.016	-5.447	-4.242	-2.405	-2.663
3	.013	-.039	-.104	-5.080	-4.173	-2.376	-2.203
4	-.369	-.525	-.317	-4.699	-3.985	-2.123	-1.836
5	-.647	-.844	-.733	-3.385	-3.259	-1.938	-1.509
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-.743	-1.023	-1.038	-1.844	-1.846	-.936	-.751
11	-.788	-1.197	.000,000	-1.019	-1.433	-.692	-.583
12	-1.229	-1.007	-.929	-.498	-.837	-.391	-.370
13	-.976	-1.083	-.765	-.638	-.723	-.495	-.436
14	-1.166	-1.103	-.788	-.694	-.774	-.393	-.344
15	-.767	-.693	-.209	-.089	-.083	.070	-.006
16	-2.421	-2.574	-1.822	-1.466	-1.699	-.934	-.692
17	-3.254	-3.584	-2.532	-1.674	-2.251	-1.261	-.741
18	-3.965	-4.124	-3.192	-1.806	-2.379	-1.492	-.920
19	-3.900	-3.851	-2.912	-1.844	-2.417	-1.390	-1.011
20	-3.342	-2.975	-2.029	-1.488	-2.192	-1.251	-1.102
21	-2.531	-1.998	-1.003	-1.122	-1.589	-1.020	-.891
22	-1.663	-.949	-.504	-.693	-.795	-.625	-.646
23	-1.029	-.777	-.436	-.368	-.195	-.229	-.268
24	-.978	-.667	-.298	-.098	-.110	-.121	-.182
25	.768	1.055	1.059	-2.298	-.850	.231	-1.629
26	.265	.641	.916	.459	.000,000	.802	-.284
27	-.360	.110	.253	.943	.979	.401	.091
28	-.180	.103	.226	.950	.673	.172	.040
29	-.137	.429	.673	.686	.625	.487	.287
30	.104	.766	.778	.746	.761	.817	.352
31	.772	1.162	1.161	1.079	.988	1.104	.208
32	.717	1.013	.946	.988	.893	.923	.758
33	.381	.682	.805	.820	.713	.671	.453

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.897	.881	.518	-4.886	-3.436	-1.601	-2.953
2	.241	.119	-.239	-5.532	-4.302	-2.251	-2.820
3	-.023	-.251	-.402	-5.266	-4.415	-2.411	-2.408
4	-.431	-.636	-.704	-4.774	-4.102	-2.461	-1.914
5	-.787	-.992	-.834	-3.604	-3.464	-2.122	-1.604
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-.800	-1.065	-1.148	-1.900	-1.895	-.976	-.779
11	-.849	-1.216	.000,000	-1.048	-1.408	-.651	-.543
12	-1.181	-.993	-.935	-.518	-.896	-.403	-.374
13	-1.048	-1.141	-.941	-.623	-.744	-.372	-.392
14	-1.333	-1.229	-1.050	-.633	-.783	-.385	-.451
15	-.798	-.689	-.230	-.105	-.107	.125	-.124
16	-2.647	-2.817	-2.141	-1.360	-1.730	-1.026	-.793
17	-3.942	-4.440	-3.420	-1.731	-2.469	-1.399	-.998
18	-4.226	-4.544	-3.396	-1.762	-2.247	-1.742	-1.352
19	-4.198	-4.417	-3.355	-1.704	-2.741	-1.569	-1.066
20	-3.405	-3.513	-2.544	-1.419	-2.071	-1.182	-.875
21	-2.590	-2.448	-1.658	-1.062	-1.493	-.839	-.851
22	-1.581	-1.220	-.522	-.743	-.877	-.540	-.641
23	-1.190	-.861	-.440	-.341	-.198	-.242	-.418
24	-1.003	-.795	-.313	-.199	-.089	-.121	-.193
25	.821	1.136	.883	-2.398	-.871	.051	-1.689
26	.280	.801	.957	.413	.000,000	.702	-.264
27	-.338	.207	.418	.963	1.022	.412	.093
28	-.210	.125	.370	.974	.689	.172	.053
29	-.091	.450	.590	.656	.577	.406	.201
30	.080	.772	.705	.788	.716	.723	.119
31	.696	1.136	1.112	1.038	.951	1.067	.158
32	.810	1.003	1.045	.925	.850	.876	.699
33	.375	.736	.950	.744	.708	.570	.345

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.917	.835	.519	-5.121	-3.439	-1.468	-3.057
2	.177	.002	-.142	-5.375	-4.089	-2.057	-2.096
3	-.144	-.341	-.485	-5.589	-4.650	-2.308	-2.435
4	-.613	-.795	-.844	-4.908	-4.262	-1.362	-.456
5	-.856	-1.105	-1.047	-3.610	-3.479	-1.203	-.659
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-.977	-1.195	-1.272	-1.804	-1.826	-.958	-.747
11	-.925	-1.296	.000,000	-1.039	-1.351	-.564	-.559
12	-1.305	-1.118	-.958	-.550	-.810	-.434	-.444
13	-1.147	-1.202	-.904	-.577	-.707	-.388	-.397
14	-1.344	-1.275	-.861	-.562	-.646	-.321	-.249
15	-.901	-.682	-.231	-.065	-.109	.027	-.218
16	-2.749	-2.994	-2.139	-1.350	-1.520	-.806	-.580
17	-3.604	-4.325	-3.241	-1.543	-2.293	-1.494	-1.100
18	-4.425	-4.885	-3.693	-1.749	-2.422	-1.262	-.972
19	-4.171	-4.513	-3.558	-1.619	-1.880	-.350	-.408
20	-3.465	-3.786	-2.775	-1.351	-1.504	-.457	-.489
21	-2.343	-2.582	-1.861	-1.098	-1.154	-.326	-.296
22	-1.399	-1.569	-1.233	-.798	-.803	-.497	-.524
23	-1.096	-.825	-.365	-.264	-.319	-.265	-.320
24	-1.020	-.922	-.478	-.174	-.151	-.169	-.284
25	.839	1.153	1.005	-2.308	-.822	-.413	-1.691
26	.287	.792	.995	.482	.000,000	.330	-.205
27	-.356	.220	.528	.935	.951	.231	.265
28	-.223	.115	.324	1.054	.653	.198	.031
29	-.194	.419	.596	.688	.560	.432	.234
30	.009	.759	.774	.801	.676	.678	.108
31	.624	1.118	1.130	1.054	.947	1.025	.093
32	.604	1.025	1.042	.971	.861	.901	.555
33	.386	.714	.882	.762	.745	.607	.299

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.800	.727	.036	-5.101	-3.613	-1.325	-1.240
2	.069	-.125	-.474	-5.682	-4.438	-1.005	-.593
3	-.232	-.484	-.756	-5.477	-4.330	-1.299	-.707
4	-.680	-.939	-.998	-4.842	-4.189	-1.037	-.319
5	-1.004	-1.288	-1.159	-3.693	-3.487	-.662	-.526
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-.990	-1.148	-1.097	-1.912	-1.802	-.589	-.408
11	-1.023	-1.342	.000,000	-1.060	-1.286	-.271	-.230
12	-1.212	-1.120	-.882	-.581	-.705	-.280	-.257
13	-1.154	-1.201	-.907	-.570	-.471	-.225	-.218
14	-1.360	-1.248	-.909	-.531	-.445	-.205	-.206
15	-.998	-.708	-.319	-.052	.053	.185	-.199
16	-2.665	-2.995	-2.149	-1.351	-1.376	-.609	-.385
17	-3.735	-4.424	-3.360	-1.562	-1.710	-.556	-.424
18	-4.485	-5.018	-3.696	-1.710	-1.792	-.471	-.544
19	-4.296	-4.938	-3.625	-1.849	-1.937	-.504	-.443
20	-3.592	-3.614	-3.143	-1.389	-1.429	-.393	-.304
21	-2.445	-2.648	-2.281	-1.072	-.995	-.359	-.250
22	-1.492	-1.386	-1.160	-.734	-.524	-.327	-.328
23	-1.153	-.881	-.485	-.342	-.129	-.344	-.122
24	-1.061	-.936	-.410	-.078	-.078	-.173	-.156
25	.833	1.179	.891	-2.390	-.658	.011	-.770
26	.310	.862	.946	.492	.000,000	.327	.033
27	-.400	.239	.424	.946	1.051	-.019	.159
28	-.299	.116	.280	.817	.595	.086	.098
29	-.234	.408	.475	.650	.555	.395	.209
30	-.063	.772	.706	.723	.644	.573	.091
31	.526	1.053	1.029	.948	.848	.657	.068
32	.587	1.047	1.069	.857	.873	.835	.694
33	.375	.723	.853	.704	.662	.472	.344

Table 8.- Continued.

(a) $C_{T,s} = 0.90$, $q_s = 20.22$

$\alpha = 65°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.826	.626	-.023	-4.598	-3.201	-.991	-.837
2	.043	-.258	-.606	-5.380	-4.023	-.556	-.525
3	-.288	-.645	-.958	-5.221	-4.365	-.759	-.373
4	-.789	-1.043	-1.115	-4.884	-3.914	-.543	-.219
5	-1.031	-1.392	-1.210	-3.477	-3.262	-.181	-.446
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-1.034	-1.244	-1.249	-1.653	-1.557	-.157	-.158
11	-1.060	-1.340	.000,000	-.970	-1.040	-.244	-.110
12	-1.221	-1.131	-.966	-.517	-.620	-.079	-.178
13	-1.256	-1.202	-.866	-.472	-.466	-.087	-.144
14	-1.468	-1.365	-.974	-.539	-.529	-.123	-.229
15	-1.037	-.677	-.263	-.014	.048	.404	-.126
16	-2.797	-3.200	-2.428	-1.250	-1.403	-.562	-.383
17	-3.728	-4.600	-3.282	-1.527	-1.572	-.329	-.373
18	-4.033	-4.804	-3.604	-1.464	-1.369	-.349	-.339
19	-4.022	-4.830	-3.632	-1.540	-1.750	-.296	-.309
20	-2.839	-4.014	-4.201	-1.292	-1.157	-.364	-.308
21	-2.172	-2.977	-2.342	-.787	-.833	-.109	-.134
22	-1.193	-1.623	-1.116	-.636	-.537	-.133	-.187
23	-1.062	-.889	-.453	-.347	-.227	-.096	-.110
24	-.987	-.821	-.409	-.053	-.067	.010	-.099
25	.798	1.182	.748	-2.042	-.717	-.550	-.730
26	.236	.858	.857	.473	.000,000	.020	.228
27	-.363	.256	.431	.975	.877	-.076	.251
28	-.317	.119	.274	.821	.557	-.009	.163
29	-.229	.392	.498	.601	.447	.264	.171
30	-.067	.748	.670	.672	.553	.704	.160
31	.524	1.094	1.009	1.005	.804	.656	.113
32	.511	.977	.987	.738	.758	.819	.452
33	.434	.713	.813	.650	.634	.375	.418

$\alpha = 70°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.733	.646	.139	-4.842	-3.295	-.453	-.859
2	-.029	-.286	-.573	-5.049	-3.920	-.264	-.383
3	-.371	-.754	-.943	-5.241	-4.118	-.449	-.467
4	-.788	-.980	-.783	-3.448	-2.804	-.119	-.238
5	-1.150	-1.378	-1.174	-2.956	-2.203	-.053	-.180
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-1.064	-1.220	-1.117	-1.492	-1.310	-.119	-.215
11	-1.166	-1.289	.000,000	-.835	-.925	-.211	-.200
12	-1.036	-1.041	-.740	-.412	-.391	-.059	-.138
13	-1.244	-1.193	-.779	-.398	-.213	-.034	-.131
14	-1.370	-1.252	-.715	-.310	-.174	-.009	-.171
15	-.879	-.668	-.209	.025	.111	.190	.033
16	-2.504	-2.975	-1.966	-.699	-.527	-.295	-.225
17	-3.791	-4.324	-2.471	-.600	-.529	-.252	-.298
18	-3.889	-4.528	-3.177	-1.203	-.639	-.276	-.225
19	-3.982	-4.754	-3.390	-1.241	-1.386	-.202	-.278
20	-3.026	-3.680	-2.349	-.532	-.429	-.211	-.333
21	-2.063	-2.936	-2.301	-.879	-.880	-.268	-.209
22	-1.019	-1.788	-1.447	-.508	-.420	-.223	-.241
23	-.991	-.736	-.339	-.191	-.191	-.159	-.216
24	-1.037	-.657	-.097	-.073	-.044	-.088	-.213
25	.787	1.240	.898	-1.978	-.573	-.334	-.593
26	.217	.893	.957	.550	.000,000	.108	.077
27	-.442	.302	.520	.931	.949	.058	.381
28	-.292	.113	.290	.785	.526	.086	-.026
29	-.215	.393	.508	.580	.430	.227	.017
30	-.112	.720	.676	.628	.516	.596	-.056
31	.537	1.127	1.052	.954	.816	.809	.018
32	.560	1.051	1.071	.615	.831	.764	.446
33	.265	.867	.786	.455	.595	.453	.243

$\alpha = 75°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.946	.575	-.062	-4.164	-2.584	-.236	-.719
2	-.159	-.348	-.570	-4.630	-3.261	-.220	-.699
3	-.475	-.705	-.753	-4.681	-3.628	-.200	-.859
4	-.909	-1.075	-.986	-3.978	-3.379	-.251	-.164
5	-1.264	-1.369	-1.081	-2.872	-2.527	-.046	-.210
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-1.214	-1.300	-1.228	-1.510	-1.330	-.160	-.138
11	-1.229	-1.351	.000,000	-.739	-.720	-.104	-.079
12	-1.087	-1.117	-.767	-.270	-.519	-.038	-.224
13	-1.202	-1.167	-.713	-.393	-.341	-.061	-.057
14	-1.397	-1.323	-.788	-.306	-.141	-.088	-.027
15	-.988	-.697	-.118	-.088	.051	.239	-.053
16	-2.568	-3.027	-2.007	-.918	-.708	-.200	-.149
17	-3.561	-4.300	-2.676	-.840	-.557	-.251	-.113
18	-4.219	-4.749	-3.168	-1.311	-1.044	-.392	-.324
19	-3.851	-4.538	-3.111	-1.330	-.990	-.232	-.181
20	-3.234	-3.743	-2.403	-1.059	-.923	-.310	-.387
21	-2.109	-2.805	-1.950	-.884	-.864	-.141	-.206
22	-1.151	-1.925	-1.499	-.568	-.426	-.194	-.211
23	-.970	-.702	-.399	-.139	-.136	-.073	-.165
24	-.910	-.593	-.187	-.002	-.050	-.070	-.246
25	.839	1.165	.825	-1.832	-.505	-.401	-.453
26	.187	.946	.969	.611	.000,000	-.083	.167
27	-.374	.263	.508	.834	.742	-.186	.106
28	-.370	.071	.290	.751	.443	.047	.084
29	-.256	.387	.514	.605	.420	.290	.247
30	-.114	.768	.679	.605	.603	.595	-.029
31	.508	1.108	1.087	.943	.888	.758	-.045
32	.494	1.040	1.135	.740	.897	.738	.321
33	.256	.701	.824	.505	.541	.448	.264

$\alpha = 80°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.667	.536	.017	-3.883	-2.434	-.307	-1.010
2	-.151	-.327	-.451	-4.338	-3.533	-.180	-.336
3	-.541	-.731	-.744	-4.127	-3.704	-.262	-.444
4	-1.015	-1.110	-.938	-3.850	-3.258	-.270	-.447
5	-1.302	-1.402	-1.097	-2.727	-2.310	-.085	-.289
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-1.267	-1.283	-1.134	-1.424	-1.337	-.190	-.269
11	-1.193	-1.342	.000,000	-.756	-.692	-.026	-.154
12	-1.012	-1.076	-.673	-.327	-.443	.013	-.117
13	-1.195	-1.168	-.666	-.422	-.472	-.069	-.114
14	-1.381	-1.326	-.756	-.377	-.321	-.044	-.136
15	-.901	-.751	-.164	-.028	.048	.227	-.145
16	-2.396	-2.832	-1.741	-.681	-.788	-.321	-.196
17	-3.653	-4.306	-2.635	-1.106	-1.014	-.232	-.317
18	-3.231	-4.448	-3.272	-1.293	-1.280	-.358	-.304
19	-3.612	-4.368	-2.974	-1.147	-1.080	-.396	-.360
20	-2.243	-3.570	-2.881	-1.158	-.790	-.355	-.340
21	-2.087	-2.713	-1.936	-.440	-.524	-.253	-.134
22	-1.258	-1.801	-1.371	-.604	-.569	-.275	-.311
23	-.933	-.649	-.396	-.239	-.231	-.203	-.253
24	-.917	-.342	-.047	-.054	-.071	-.052	-.106
25	.653	1.163	.672	-1.702	-.477	-.409	-.404
26	.075	.913	.993	.605	.000,000	-.079	-.005
27	-.534	.236	.514	.942	.862	-.124	.108
28	-.328	.057	.238	.641	.379	-.026	.050
29	-.309	.354	.445	.536	.353	.185	.019
30	-.120	.740	.663	.528	.449	.576	-.010
31	.504	1.177	1.163	.906	.764	.698	.118
32	.513	1.027	1.037	.664	.678	.665	.376
33	.273	.663	.833	.414	.552	.422	.159

Table 8. - Continued.

(b) $C_{T,S} = 0.80$, $q_s = 20.03$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.142	1.089	.492	-.358	.088	.521	-.163
2	1.043	1.137	.458	-.909	-.890	-.360	-.632
3	.848	.956	.748	-.975	-1.168	-.545	-.752
4	.491	.639	.037	-1.294	-1.423	-.899	-.938
5	.098	.194	.293	-1.318	-1.532	-1.210	-1.026
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-.264	-.376	-.457	-1.156	-1.081	-.685	-.530
11	-.445	-.715	.000,000	-.924	-1.206	-.782	-.641
12	-.761	-.668	-.655	-.518	-.939	-.575	-.518
13	-.405	-.670	-.621	-.697	-.786	-.536	-.418
14	-.528	-.726	-.711	-.767	-.836	-.606	-.512
15	-.239	-.674	-.012	-.129	-.116	.036	-.019
16	-1.337	-1.520	-1.225	-1.551	-1.783	-1.527	-.929
17	-2.110	-2.358	-2.006	-2.198	-2.505	-2.122	-1.392
18	-2.288	-2.322	-2.305	-2.383	-2.748	-2.653	-1.731
19	-2.191	-2.031	-2.133	-2.459	-2.733	-2.343	-1.590
20	-1.765	-1.131	-1.250	-1.551	-1.742	-1.617	-1.341
21	-1.323	-.631	-.575	-.715	-1.054	-1.256	-1.053
22	-.862	-.433	-.411	-.346	-.300	-.775	-.653
23	-.504	-.353	-.328	-.303	-.298	-.327	-.479
24	-.444	-.312	-.305	-.237	-.235	-.282	-.305
25	.269	.019	-.382	.534	1.082	1.160	.639
26	-.479	-.750	-.576	.779	.000,000	.930	.773
27	-.618	-.572	-.326	.637	.614	.346	.338
28	-.173	-.075	.145	.669	.444	.340	.189
29	.196	.500	.481	.578	.659	.604	.515
30	-.198	.468	.616	.753	.775	.743	.011
31	.894	.703	.721	1.043	1.128	1.026	.681
32	1.043	1.059	.803	.979	1.080	1.069	1.034
33	.836	.784	.670	.752	.850	.803	.621

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.122	1.150	.559	-1.209	-.501	.273	-.347
2	.901	1.085	.785	-1.866	-1.517	-.640	-1.010
3	.651	.845	.628	-2.126	-1.915	-.866	-1.038
4	.305	.436	.443	-2.335	-2.241	-1.414	-1.439
5	-.102	-.012	.196	-1.770	-1.897	-1.370	-1.147
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-.398	-.501	-.594	-1.416	-1.309	-.876	-.753
11	-.558	-.832	.000,000	-1.032	-1.398	-.874	-.802
12	-.896	-.691	-.694	-.589	-.929	-.600	-.572
13	-.475	-.723	-.642	-.663	-.779	-.540	-.482
14	-.612	-.743	-.686	-.682	-.756	-.588	-.527
15	-.267	-.703	-.018	-.080	-.111	-.018	-.132
16	-1.644	-1.762	-1.383	-1.557	-1.824	-1.759	-1.218
17	-2.177	-2.385	-1.996	-2.088	-2.231	-1.977	-1.449
18	-2.724	-2.634	-2.187	-2.332	-2.476	-2.600	-1.784
19	-2.540	-2.300	-2.144	-2.177	-2.469	-2.519	-1.630
20	-2.091	-1.567	-1.340	-1.315	-1.707	-1.737	-1.356
21	-1.689	-.884	-.685	-.528	-.855	-1.333	-.971
22	-1.115	-.437	-.447	-.254	-.315	-.659	-.707
23	-.604	-.325	-.301	-.211	-.246	-.281	-.505
24	-.609	-.314	-.321	-.243	-.220	-.337	-.344
25	.390	.426	-.022	-.136	.747	1.069	.544
26	-.231	-.332	-.133	.805	.000,000	1.066	.889
27	-.516	-.328	-.051	.748	.772	.538	.410
28	-.171	-.010	.237	.692	.576	.422	.239
29	.151	.485	.464	.696	.657	.607	.535
30	.153	.508	.635	.707	.770	.752	-.027
31	.955	.840	.739	.918	1.096	1.079	.915
32	.828	1.006	.753	.891	.987	.981	.856
33	.565	.770	.685	.909	.817	.735	.467

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.182	1.191	.620	-2.470	-1.596	-.388	-.957
2	.799	.893	.517	-3.307	-2.587	-1.426	-1.761
3	.564	.607	.411	-3.227	-2.989	-1.763	-1.793
4	.105	.145	.155	-3.055	-2.829	-1.836	-1.771
5	-.311	-.297	-.128	-2.463	-2.643	-1.893	-1.700
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-.476	-.659	-.725	-1.695	-1.591	-1.112	-.983
11	-.601	-.948	.000,000	-1.134	-1.479	-1.001	-.837
12	-.996	-.846	-.840	-.660	-1.077	-.711	-.640
13	-.565	-.812	-.729	-.707	-.823	-.595	-.520
14	-.784	-.921	-.746	-.781	-.880	-.656	-.563
15	-.379	-.793	-.129	-.158	-.143	-.003	-.177
16	-1.836	-1.982	-1.565	-1.809	-1.784	-1.692	-1.142
17	-2.543	-2.889	-2.254	-2.067	-2.265	-2.022	-1.498
18	-2.942	-2.976	-2.250	-2.278	-2.448	-2.589	-1.777
19	-2.890	-2.838	-2.310	-2.278	-2.451	-2.315	-1.618
20	-2.371	-1.973	-1.728	-1.662	-1.514	-1.821	-1.422
21	-1.889	-.929	-.850	-1.038	-.521	-1.191	-.938
22	-1.355	-.589	-.552	-.584	-.302	-.487	-.719
23	-.743	-.411	-.330	-.254	-.209	-.337	-.459
24	-.712	-.401	-.347	-.355	-.210	-.295	-.363
25	.620	.955	.189	-.768	-.279	.854	.417
26	.012	-.035	.149	.651	.000,000	1.120	.920
27	-.362	-.153	.096	.880	.905	.667	.541
28	-.138	.042	.314	.921	.861	.445	.234
29	.162	.489	.553	.674	.707	.585	.525
30	.224	.613	.526	.741	.762	.754	-.060
31	.917	1.044	.692	.986	1.024	1.025	.807
32	.872	1.065	.853	1.008	1.034	1.025	.865
33	.567	.738	.672	.793	.804	.723	.391

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.132	1.158	.666	-3.804	-2.341	-.868	-1.446
2	.809	.805	.383	-3.929	-3.244	-1.770	-2.007
3	.564	.284	.196	-4.338	-3.878	-2.295	-2.118
4	.070	.099	.054	-4.111	-3.711	-2.395	-2.031
5	-.423	-.536	-.423	-3.920	-3.920	-2.136	-1.741
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-.546	-.843	-.858	-1.812	-1.783	-1.194	-1.048
11	-.679	-1.086	.000,000	-1.258	-1.655	-1.102	-.994
12	-1.084	-.880	-.897	-.695	-1.090	-.703	-.629
13	-.668	-.886	-.750	-.731	-.912	-.620	-.543
14	-.949	-1.003	-.841	-.846	-.947	-.686	-.586
15	-.505	-.812	-.114	-.111	-.224	-.069	.009
16	-1.992	-2.267	-1.788	-1.615	-2.146	-1.681	-1.079
17	-2.811	-3.240	-2.506	-1.853	-2.821	-2.159	-1.602
18	-3.411	-3.474	-2.882	-2.294	-3.082	-2.478	-1.847
19	-3.321	-3.470	-3.083	-2.234	-3.109	-2.441	-1.722
20	-2.809	-2.387	-1.821	-1.775	-2.622	-2.064	-1.471
21	-2.286	-1.329	-.840	-1.112	-1.724	-1.370	-1.090
22	-1.558	-.667	-.670	-.728	-.842	-.488	-.881
23	-.823	-.527	-.423	-.295	-.320	-.214	-.284
24	-.782	-.510	-.414	-.213	-.074	-.263	-.328
25	.625	.948	.615	-1.595	-.222	.702	.228
26	.201	.353	.619	.556	.000,000	1.178	.806
27	-.277	-.010	.280	.987	1.067	.821	.529
28	-.099	.129	.318	.936	.731	.485	.209
29	.130	.528	.649	.751	.727	.659	.529
30	.256	.784	.736	.921	.885	.893	.079
31	.901	1.177	.901	.948	1.061	1.077	.539
32	.839	1.061	1.038	.998	1.049	1.021	.804
33	.556	.771	.806	.883	.839	.745	.507

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.086	1.038	.527	-4.624	-3.337	-1.189	-1.848
2	.457	.399	.079	-5.317	-4.306	-2.349	-2.326
3	.141	.040	-.075	-4.997	-4.523	-2.674	-2.430
4	-.269	-.444	-.431	-4.271	-3.922	-2.630	-2.213
5	-.625	-.824	-.626	-3.384	-3.389	-2.315	-1.791
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-.729	-1.010	-1.045	-2.064	-2.064	-1.247	-1.088
11	-.751	-1.187	.000,000	-1.215	-1.645	-1.035	-.902
12	-1.187	-.953	-.886	-.699	-1.167	-.677	-.634
13	-.689	-.968	-.879	-.823	-.962	-.595	-.509
14	-1.048	-1.085	-.869	-.678	-.881	-.576	-.446
15	-.674	-.953	-.124	-.130	-.240	-.027	-.045
16	-2.227	-2.398	-1.823	-1.358	-1.959	-1.586	-.983
17	-3.300	-3.596	-2.833	-1.786	-2.830	-2.022	-1.417
18	-3.771	-3.922	-3.207	-1.855	-3.110	-2.726	-1.856
19	-3.562	-3.627	-3.021	-1.585	-2.861	-2.350	-1.527
20	-3.181	-2.604	-2.244	-1.371	-2.303	-1.952	-1.372
21	-2.642	-1.514	-.727	-1.165	-1.788	-1.486	-1.139
22	-1.526	-.713	-.631	-.686	-.878	-.734	-.845
23	-.945	-.528	-.338	-.295	-.243	-.177	-.416
24	-.961	-.662	-.327	-.089	-.038	-.124	-.105
25	.947	1.124	.830	-2.259	-.725	.561	-.492
26	.450	.723	.865	.505	.000,000	1.179	.410
27	-.174	.239	.469	.992	1.075	.862	.421
28	-.091	.219	.436	.875	.744	.492	.209
29	.113	.548	.685	.760	.746	.642	.532
30	.174	.821	.790	.840	.813	.836	.217
31	.821	1.159	1.012	1.044	1.010	1.033	.359
32	.813	1.082	1.001	1.077	1.017	.994	.883
33	.600	.806	.832	.910	.856	.743	.518

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.993	.901	.430	-5.532	-3.879	-1.444	-2.639
2	.242	.044	-.202	-5.802	-4.562	-2.546	-2.715
3	-.071	-.313	-.408	-5.943	-4.948	-2.827	-2.661
4	-.504	-.751	-.563	-4.743	-4.205	-2.766	-2.342
5	-.806	-1.100	-.825	-3.651	-3.545	-2.455	-1.898
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-.867	-1.203	-1.125	-2.140	-2.150	-1.254	-.965
11	-.817	-1.194	.000,000	-1.139	-1.608	-.884	-.671
12	-1.203	-.931	-.693	-.604	-.989	-.571	-.480
13	-.972	-1.047	-.750	-.724	-.855	-.591	-.492
14	-1.271	-1.104	-.946	-.764	-.830	-.537	-.425
15	-.760	-.402	-.014	-.038	-.134	-.058	-.098
16	-2.447	-2.543	-1.784	-1.455	-1.940	-1.469	-.903
17	-3.740	-3.838	-2.647	-1.818	-2.706	-1.745	-1.123
18	-4.120	-4.013	-3.258	-1.837	-2.936	-2.307	-1.587
19	-4.160	-3.949	-3.244	-1.794	-3.077	-2.091	-1.280
20	-3.545	-3.090	-1.875	-1.402	-2.481	-1.941	-1.351
21	-2.434	-1.643	-1.253	-.955	-1.709	-1.298	-.929
22	-1.597	-.933	-.508	-.723	-1.074	-.923	-.922
23	-1.140	-.593	-.313	-.273	-.264	-.227	-.341
24	-1.047	-.678	-.338	-.215	-.017	-.195	-.248
25	1.065	1.234	.991	-2.745	-1.188	.517	-1.385
26	.513	.985	1.073	.443	.000,000	1.126	.067
27	-.105	.421	.791	1.034	1.121	.878	.358
28	-.099	.316	.621	1.053	.788	.467	.225
29	.041	.589	.749	.802	.741	.585	.447
30	.161	.831	.783	.893	.798	.749	.184
31	.737	1.202	1.222	1.089	1.033	1.000	.284
32	.779	1.114	1.118	1.084	1.026	.976	.757
33	.554	.803	.973	1.060	.842	.722	.490

Table 8.- Continued.

(b) $C_{T,S} = 0.80$, $q_S = 20.03$

$\alpha = 35°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.922	.661	.037	-5.950	-8.434	-3.681	-2.988
2	-.023	-.316	-.719	-6.857	-5.436	-3.137	-3.039
3	-.375	-.726	-.845	-6.881	-5.782	-3.274	-2.917
4	-.803	-1.151	-1.234	-5.749	-4.978	-3.255	-2.515
5	-1.093	-1.482	-1.494	-4.288	-4.052	-2.702	-1.977
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.317	-1.434	-1.357	-2.319	-2.215	-1.286	-.902
11	-.474	-1.350	.000.000	-1.207	-1.058	-.848	-.707
12	-1.341	-1.094	-.957	-.039	-1.029	-.529	-.513
13	-1.146	-1.181	-.914	-.747	-.807	-.446	-.358
14	-1.445	-1.289	-1.038	-.747	-.884	-.535	-.373
15	-.945	-.833	-.213	-.064	-.129	.026	-.114
16	-2.790	-2.426	-2.295	-1.540	-1.999	-1.426	-.863
17	-4.262	-4.317	-3.194	-2.157	-2.827	-1.797	-1.058
18	-4.419	-4.313	-3.454	-1.918	-2.811	-2.303	-1.411
19	-4.586	-4.174	-3.367	-1.981	-3.062	-2.261	-1.434
20	-3.677	-3.442	-2.709	-1.529	-2.395	-1.811	-1.333
21	-2.748	-2.110	-1.479	-1.055	-1.647	-1.329	-1.042
22	-1.678	-1.283	-.807	-.819	-1.043	-1.051	-1.063
23	-1.257	-.787	-.439	-.355	-.321	-.370	-.523
24	-1.070	-.750	-.490	-.316	-.021	-.167	-.181
25	1.087	1.191	.833	-3.220	-1.503	.295	-1.650
26	.634	1.043	1.125	.260	.000.000	1.086	-.343
27	-.047	.471	.722	.971	1.114	.773	.219
28	-.080	.320	.544	.918	.825	.381	.176
29	0.	.552	.665	.753	.725	.557	.348
30	.004	.434	.445	.857	.788	.830	.128
31	.665	1.185	1.152	1.122	1.074	1.075	.212
32	.708	1.084	1.043	1.089	1.008	.997	.780
33	.441	.727	.885	.882	.825	.649	.402

$\alpha = 40°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.701	.268	-.554	-7.198	-5.217	-2.203	-3.847
2	-.284	-.786	-1.491	-7.611	-6.037	-3.542	-3.429
3	-.575	-1.181	-1.486	-7.140	-6.053	-3.705	-3.143
4	-1.048	-1.545	-1.710	-6.594	-5.668	-3.763	-2.421
5	-1.188	-1.672	-1.650	-4.485	-4.136	-2.801	-1.930
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.039	-1.441	-1.578	-2.389	-2.144	-1.266	-.980
11	-1.009	-1.435	.000.000	-1.181	-1.018	-.814	-.693
12	-1.433	-1.189	-1.097	-.655	-1.024	-.587	-.454
13	-1.324	-1.318	-1.103	-.775	-.892	-.637	-.565
14	-1.594	-1.420	-1.141	-.789	-.843	-.503	-.391
15	-1.104	-.812	-.259	-.103	-.120	-.059	-.268
16	-3.123	-3.307	-2.457	-1.738	-2.123	-1.337	-.883
17	-4.241	-4.548	-3.548	-1.873	-2.751	-1.628	-1.015
18	-4.772	-4.867	-4.006	-1.955	-2.978	-1.830	-1.041
19	-4.882	-5.046	-4.147	-2.016	-3.130	-1.747	-1.164
20	-3.882	-3.908	-3.073	-1.540	-2.420	-1.460	-.994
21	-2.974	-2.951	-2.430	-1.168	-1.765	-1.301	-1.006
22	-1.633	-1.673	-1.306	-.807	-1.016	-.606	-.535
23	-1.326	-.940	-.529	-.334	-.244	-.300	-.408
24	-1.149	-.872	-.469	-.280	-.100	-.260	-.303
25	1.141	1.200	.781	-3.845	-2.090	-.052	-3.040
26	.755	1.125	1.070	.121	.000.000	.877	-.607
27	.002	.587	.743	1.037	1.120	.851	.100
28	-.073	.329	.512	.967	.844	.239	.139
29	-.038	.537	.647	.747	.681	.449	.228
30	.024	.478	.670	.899	.798	.782	-.030
31	.593	1.197	1.149	1.123	1.012	.956	.053
32	.709	1.137	1.128	1.088	.946	.982	.519
33	.470	.745	.950	.849	.804	.590	.283

$\alpha = 45°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.408	.134	-.678	-7.702	-5.709	-1.629	-.673
2	-.921	-.963	-1.441	-7.864	-6.156	-2.342	-.459
3	-.724	-1.344	-1.741	-7.425	-6.219	-1.996	-.387
4	-1.128	-1.645	-1.816	-6.102	-5.383	-1.613	-.305
5	-1.426	-1.997	-1.964	-4.846	-4.475	-.843	-.359
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.200	-1.625	-1.740	-2.290	-2.426	-.454	-.388
11	-1.174	-1.588	.000.000	-1.307	-1.844	-.299	-.359
12	-1.436	-1.183	-1.068	-.660	-.930	-.303	-.276
13	-1.394	-1.342	-1.134	-.745	-.713	-.297	-.317
14	-1.757	-1.538	-1.212	-.853	-.797	-.247	-.315
15	-1.166	-.859	-.304	-.078	-.087	.105	-.200
16	-3.079	-3.116	-2.299	-1.531	-1.554	-.479	-.341
17	-4.125	-4.519	-3.490	-1.895	-2.155	-.651	-.480
18	-4.774	-4.960	-4.089	-1.959	-2.192	-.678	-.478
19	-4.340	-4.634	-4.056	-1.927	-2.129	-.606	-.368
20	-3.242	-3.882	-3.305	-1.721	-2.125	-.666	-.579
21	-2.259	-2.797	-2.355	-1.168	-1.491	-.544	-.317
22	-1.438	-1.486	-1.435	-.815	-.698	-.409	-.385
23	-1.289	-.989	-.577	-.422	-.407	-.301	-.327
24	-1.116	-1.000	-.609	-.261	-.150	-.339	-.387
25	1.068	1.136	.613	-4.295	-2.149	-.274	-.948
26	.668	1.186	1.107	.095	.000.000	.540	-.038
27	-.023	.680	.878	1.032	1.182	.465	.115
28	-.110	.376	.560	.959	.876	.201	.148
29	-.086	.541	.642	.761	.662	.416	.281
30	-.037	.671	.672	.898	.782	.805	.018
31	.500	1.157	1.183	1.097	.982	1.020	.061
32	.549	1.079	1.112	1.119	1.004	.928	.460
33	.447	.779	.945	.857	.774	.545	.280

$\alpha = 50°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.317	.141	-.249	-2.537	-2.347	-1.237	-.749
2	-.453	-.700	-1.014	-2.549	-2.764	-1.692	-.460
3	-.762	-1.104	-1.170	-1.804	-2.427	-1.905	-.456
4	-1.151	-1.404	-1.143	-.741	-1.872	-1.347	-.356
5	-1.442	-1.618	-1.150	-.342	-.915	-.893	-.402
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.141	-1.225	-.904	-.379	-.373	-.527	-.296
11	-1.123	-1.256	.000.000	-.546	-.415	-.433	-.387
12	-1.393	-1.078	-.809	-.340	-.365	-.367	-.381
13	-1.269	-1.040	-.545	-.338	-.360	-.294	-.331
14	-1.528	-1.078	-.521	-.330	-.348	-.364	-.394
15	-1.303	-.857	-.072	.210	.102	.121	-.138
16	-3.279	-3.117	-1.741	-.716	-.757	-.732	-.491
17	-4.349	-4.170	-2.171	-.734	-.671	-.623	-.483
18	-4.881	-4.808	-1.935	-.638	-.638	-.652	-.444
19	-5.092	-3.998	-2.248	-.635	-.556	-.436	-.340
20	-4.185	-3.881	-2.042	-.509	-.487	-.515	-.460
21	-3.631	-2.881	-1.506	-.411	-.383	-.376	-.307
22	-2.473	-1.851	-1.062	-.368	-.369	-.430	-.341
23	-1.296	-.826	-.596	-.366	-.408	-.395	-.289
24	-1.098	-.181	-.136	-.300	-.254	-.290	-.265
25	1.042	1.143	.560	-1.381	-.646	-.042	-.930
26	.661	1.114	1.085	.633	.000.000	.438	-.186
27	.002	.638	.835	1.031	1.121	.216	.213
28	-.110	.374	.534	.909	.901	.134	.141
29	-.108	.583	.840	.921	.851	.436	.288
30	-.104	.663	.808	.747	.714	.732	.111
31	.442	1.142	1.145	1.045	.977	.940	.084
32	.540	1.068	1.079	.940	.880	.876	.518
33	.370	.754	.868	.762	.678	.492	.295

Table 8. - Continued.

(b) $C_{T,S} = 0.80$, $q_S = 20.03$

$\alpha = 55°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.434	-.024	-.830	-2.872	-2.709	-.905	-.521
2	-.640	-1.140	-1.245	-2.224	-1.018	-.986	-.384
3	-.402	-1.443	-1.534	-1.805	-3.485	-.337	-.241
4	-1.226	-1.572	-1.247	-.461	-1.891	-.552	-.312
5	-1.474	-1.781	-1.336	-.484	-.670	-.394	-.335
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.303	-1.458	-1.040	-.408	-.483	-.290	-.373
11	-1.099	-1.284	.000.000	-.314	-.401	-.221	-.287
12	-.419	-.484	-.626	-.249	-.269	-.213	-.273
13	-1.241	-.933	-.392	-.285	-.232	-.241	-.341
14	-1.642	-1.165	-.580	-.371	-.310	-.250	-.280
15	-1.396	-.830	.048	.061	.084	.204	-.178
16	-3.312	-3.015	-1.692	-.756	-.647	-.507	-.343
17	-4.548	-3.853	-2.015	-.867	-.538	-.506	-.540
18	-5.186	-3.933	-1.900	-.733	-.543	-.502	-.548
19	-5.276	-4.168	-2.144	-.655	-.544	-.440	-.403
20	-3.961	-2.687	-1.420	-.448	-.444	-.405	-.572
21	-3.470	-2.678	-1.410	-.524	-.338	-.347	-.353
22	-2.124	-1.655	-1.036	-.434	-.327	-.352	-.343
23	-1.572	-.864	-.583	-.375	-.332	-.398	-.391
24	-.867	-.284	-.280	-.308	-.225	-.261	-.280
25	1.088	1.113	.807	-1.341	-.612	-.483	-.859
26	.776	1.194	1.179	.629	.000.000	-.017	-.209
27	.923	.955	.828	1.015	1.044	.128	.081
28	-.100	.349	.528	.858	.769	.133	.110
29	-.171	.519	.846	.706	.588	.392	.212
30	-.145	.821	.807	.761	.722	.712	-.070
31	.483	1.141	1.134	1.042	.969	.898	-.126
32	.544	1.055	1.104	.972	.910	.900	.301
33	.346	.755	.849	.665	.642	.463	.178

$\alpha = 60°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.209	-.212	-1.141	-3.467	-3.733	-.346	-.212
2	-.440	-1.502	-1.774	-3.165	-4.267	-.184	-.110
3	-1.247	-1.781	-2.005	-3.264	-4.290	-.104	-.090
4	-1.834	-2.043	-1.498	-1.370	-3.042	-.118	-.170
5	-1.780	-2.189	-1.742	-.654	-2.213	-.142	-.164
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.402	-1.548	-1.225	-.518	-.711	-.188	-.249
11	-1.370	-1.492	.000.000	-.357	-.744	-.185	-.191
12	-1.281	-1.288	-.628	-.364	-.819	-.147	-.229
13	-1.582	-1.344	-.694	-.474	-.588	-.087	-.246
14	-1.980	-1.440	-.765	-.488	-.405	-.188	-.260
15	-1.331	-.774	.048	.134	.145	.158	-.138
16	-3.545	-3.338	-1.884	-.873	-.853	-.453	-.374
17	-4.629	-4.275	-2.460	-.711	-.835	-.414	-.447
18	-5.340	-4.570	-2.598	-.558	-.804	-.537	-.610
19	-5.284	-4.780	-2.841	-.688	-.743	-.454	-.310
20	-3.943	-2.814	-1.334	-.524	-.804	-.507	-.401
21	-2.984	-2.684	-1.137	-.367	-.542	-.386	-.393
22	-1.771	-1.748	-1.220	-.355	-.430	-.354	-.405
23	-1.538	-.864	-.567	-.268	-.260	-.304	-.331
24	-.978	-.280	-.100	-.192	-.221	-.256	-.201
25	.982	1.015	.378	-1.917	-1.109	-.317	-.456
26	.894	1.148	1.083	.548	.000.000	-.011	-.120
27	-.024	.767	.910	1.113	1.078	.009	.030
28	-.218	.455	.548	.931	.720	.184	.140
29	-.273	.515	.861	.780	.817	.323	.191
30	-.314	.802	.829	.768	.598	.670	-.009
31	.313	1.173	1.138	1.144	.931	.857	-.101
32	.466	1.007	1.095	.863	.890	.828	.196
33	.243	.705	.909	.553	.630	.378	.091

$\alpha = 65°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.082	-.420	-1.100	-3.691	-3.415	-.369	-.230
2	-1.017	-1.560	-1.789	-2.635	-3.825	-.257	-.138
3	-1.600	-2.227	-2.518	-2.654	-4.366	-.274	-.286
4	-1.659	-2.147	-1.938	-.963	-2.009	-.164	-.265
5	-1.991	-2.238	-1.791	-.722	-1.602	-.140	-.171
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.630	-1.743	-1.515	-.789	-.893	-.149	-.160
11	-1.437	-1.407	.000.000	-.703	-.813	-.170	-.220
12	-1.172	-1.228	-.767	-.428	-.568	-.123	-.142
13	-1.514	-1.124	-.595	-.480	-.429	-.162	-.231
14	-1.831	-1.287	-.695	-.337	-.260	-.124	-.220
15	-1.505	-.818	.014	-.023	.083	.106	-.238
16	-3.219	-2.802	-1.536	-.723	-.621	-.446	-.548
17	-4.395	-3.594	-2.063	-.671	-.556	-.492	-.436
18	-5.309	-4.054	-2.306	-.477	-.496	-.429	-.263
19	-4.916	-4.452	-2.462	-.564	-.832	-.484	-.550
20	-3.644	-3.493	-2.344	-.452	-.420	-.448	-.563
21	-3.012	-2.267	-1.434	-.378	-.521	-.489	-.549
22	-1.668	-1.392	-1.291	-.313	-.321	-.367	-.308
23	-1.731	-.817	-.478	-.232	-.261	-.291	-.289
24	-.732	-.182	-.134	-.148	-.169	-.169	-.213
25	.959	.947	.311	-1.855	-1.778	-.253	-.408
26	.943	1.179	1.094	.668	.000.000	-.012	-.100
27	-.049	.794	.910	1.130	1.011	-.110	.061
28	-.269	.344	.536	.940	.584	.071	.077
29	-.266	.495	.622	.715	.425	.261	.116
30	-.335	.776	.750	.642	.460	.523	-.076
31	.254	1.101	1.102	.972	.793	.655	-.093
32	.412	1.024	1.098	.692	.840	.755	.100
33	.269	.749	.928	.567	.548	.367	.159

$\alpha = 70°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	-.024	-.477	-1.141	-2.920	-2.725	-.314	-.206
2	-1.221	-1.722	-2.024	-2.678	-3.041	-.311	-.204
3	-1.927	-2.056	-2.172	-1.707	-3.065	-.118	-.238
4	-2.036	-2.315	-2.048	-.733	-1.938	-.178	-.134
5	-2.416	-2.444	-2.047	-.521	-1.119	-.194	-.204
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.815	-1.713	-1.301	-.485	-.735	-.182	-.274
11	-1.541	-1.478	.000.000	-.522	-.737	-.120	-.209
12	-1.121	-1.213	-.713	-.339	-.626	-.156	-.240
13	-1.423	-1.061	-.500	-.269	-.244	-.158	-.189
14	-1.736	-1.095	-.537	-.214	-.292	-.185	-.186
15	-1.343	-.809	.005	.142	.046	.104	-.183
16	-3.329	-2.839	-1.323	-.433	-.601	-.514	-.481
17	-4.435	-2.931	-1.596	-.506	-.552	-.447	-.349
18	-4.320	-2.850	-1.722	-.439	-.549	-.436	-.502
19	-4.454	-3.244	-1.765	-.481	-.464	-.493	-.384
20	-3.542	-2.557	-1.454	-.447	-.478	-.455	-.430
21	-2.718	-1.853	-.996	-.364	-.376	-.373	-.380
22	-1.630	-1.281	-.909	-.293	-.342	-.354	-.340
23	-1.280	-.522	-.458	-.289	-.311	-.270	-.300
24	-.575	-.301	-.322	-.224	-.215	-.240	-.273
25	.981	1.005	.266	-1.465	-1.654	-.331	-.504
26	.910	1.124	1.085	.692	.000.000	-.169	-.147
27	-.120	.671	.849	.987	.899	-.181	.026
28	-.258	.333	.470	.822	.528	.063	.124
29	-.274	.402	.510	.553	.278	.184	.141
30	-.303	.768	.722	.470	.415	.476	-.133
31	.290	1.181	1.177	.736	.810	.630	-.164
32	.371	.979	1.057	.606	.628	.605	.101
33	.196	.848	.847	.489	.329	.274	.117

Table 8.- Continued.

(c) $C_{T,S} = 0.60$, $q_S = 21.43$

$\alpha = 5°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	1.049	1.103	.450	.010	.001	.328	.067
2	.838	.948	.331	-1.430	-1.244	-.669	-.643
3	.612	.856	.241	-1.325	-1.868	-1.021	-1.067
4	.241	.148	-.170	-1.834	-1.937	-1.358	-1.261
5	-.178	-.245	-.447	-1.901	-2.144	-1.687	-1.439
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.553	-.741	-.998	-1.575	-1.501	-1.126	-.903
11	-.707	-1.045	.000.000	-1.491	-1.581	-1.180	-1.056
12	-1.012	-.825	-.803	-.694	-1.071	-.818	-.756
13	-.851	-.931	-.851	-.876	-1.063	-.840	-.776
14	-.771	-.882	-.807	-.848	-1.021	-.820	-.717
15	-.398	-.235	-.074	-.132	-.214	-.131	-.117
16	-1.671	-1.960	-1.364	-1.816	-2.037	-1.917	-1.186
17	-2.994	-3.005	-2.047	-2.460	-2.759	-2.457	-1.826
18	-3.163	-2.990	-2.192	-2.351	-2.878	-2.807	-1.869
19	-3.140	-2.816	-1.959	-2.440	-2.721	-2.471	-1.819
20	-2.933	-1.694	-.859	-1.670	-1.727	-1.633	-1.369
21	-2.347	-1.102	-.673	-.971	-.960	-1.282	-1.217
22	-1.201	-.477	-.488	-.533	-.390	-.422	-.535
23	-.806	-.426	-.407	-.446	-.354	-.360	-.443
24	-.721	-.374	-.367	-.416	-.269	-.373	-.430
25	.523	.559	.297	.210	.926	1.089	.830
26	-.185	-.243	.197	.607	.000.000	.962	.813
27	-.438	-.285	.047	.633	.639	.420	.309
28	-.147	-.040	.198	.466	.415	.309	.234
29	.166	.430	.435	.462	.609	.569	.414
30	.248	.600	.577	.757	.735	.707	.089
31	.923	1.101	.717	1.042	1.088	.980	.543
32	.832	.987	.754	.979	1.012	.954	.926
33	.559	.708	.574	.739	.779	.716	.450

$\alpha = 10°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	1.104	1.115	.287	-2.243	-1.440	-.538	-.720
2	.588	.588	-.225	-2.720	-2.523	-1.795	-1.748
3	.305	.201	-.422	-2.808	-2.840	-1.935	-1.884
4	-.182	-.185	-.570	-2.602	-2.527	-1.913	-1.825
5	-.524	-.756	-.674	-2.603	-2.812	-2.205	-1.933
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.686	-.952	-1.090	-1.611	-1.739	-1.378	-1.177
11	-.803	-1.167	.000.000	-1.543	-1.706	-1.314	-1.223
12	-1.176	-.961	-.903	-.773	-1.193	-.942	-.885
13	-.719	-.969	-.873	-.769	-1.017	-.813	-.740
14	-.667	-.943	-.783	-.730	-.948	-.821	-.696
15	-.500	-.334	-.092	-.169	-.145	-.156	-.080
16	-2.131	-2.200	-1.592	-1.791	-2.115	-1.993	-1.308
17	-3.131	-3.200	-2.408	-2.486	-2.751	-2.380	-1.766
18	-3.460	-3.337	-2.367	-2.319	-2.778	-2.716	-2.006
19	-3.575	-3.152	-2.325	-2.491	-2.672	-2.626	-1.924
20	-2.881	-2.152	-1.517	-1.753	-1.945	-1.833	-1.443
21	-2.394	-1.089	-.863	-.939	-.913	-.998	-.951
22	-1.392	-.632	-.563	-.564	-.376	-.432	-.672
23	-.995	-.514	-.517	-.370	-.334	-.413	-.421
24	-.745	-.453	-.419	-.263	-.320	-.402	-.413
25	.476	1.030	.401	-.422	.573	.904	.685
26	.219	.315	.527	.665	.000.000	1.105	.868
27	-.238	-.021	.346	.843	.915	.723	.516
28	-.068	.093	.348	.717	.617	.499	.330
29	.151	.475	.548	.646	.648	.609	.495
30	.250	.685	.617	.815	.769	.766	.080
31	.845	1.127	.690	1.027	1.067	1.042	.520
32	.775	.992	.770	1.030	.986	.943	.923
33	.624	.775	.605	.800	.836	.718	.479

$\alpha = 15°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.490	.938	-.157	-3.718	-2.801	-1.603	-1.745
2	.272	.151	-.654	-5.035	-4.259	-2.933	-2.780
3	.006	-.238	-.699	-4.564	-4.116	-2.928	-2.720
4	-.438	-.676	-1.008	-3.825	-3.711	-2.989	-2.873
5	-.752	-1.106	-1.144	-3.288	-3.407	-2.724	-2.456
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.857	-1.248	-1.300	-2.183	-2.113	-1.822	-1.540
11	-.893	-1.307	.000.000	-1.601	-1.911	-1.509	-1.398
12	-1.411	-1.121	-1.058	-.919	-1.363	-1.142	-1.078
13	-.919	-1.096	-.930	-.860	-1.077	-.917	-.820
14	-1.149	-1.149	-.943	-.843	-.999	-.913	-.770
15	-.644	-.395	-.170	-.139	-.193	-.184	-.170
16	-2.555	-2.632	-1.942	-1.677	-2.074	-2.128	-1.399
17	-3.662	-3.624	-2.811	-2.247	-2.746	-2.424	-1.789
18	-4.069	-3.711	-3.123	-2.316	-2.823	-2.795	-1.972
19	-4.080	-3.496	-2.802	-2.345	-2.644	-2.513	-1.773
20	-3.190	-2.421	-1.971	-1.624	-1.996	-1.795	-1.478
21	-2.514	-1.536	-1.036	-.996	-.858	-1.020	-1.038
22	-1.526	-.728	-.816	-.781	-.459	-.468	-.554
23	-1.001	-.519	-.503	-.352	-.258	-.307	-.305
24	-.488	-.578	-.495	-.307	-.344	-.407	-.414
25	1.085	1.210	.496	-1.531	-.222	.460	.204
26	.497	.739	.702	.556	.000.000	1.083	.804
27	-.060	.244	.542	.970	1.121	.916	.670
28	-.041	.247	.495	.863	.775	.559	.350
29	.168	.547	.626	.748	.764	.614	.502
30	.241	.859	.726	.871	.848	.790	-.102
31	.853	1.243	1.040	1.108	1.116	1.098	.638
32	.822	1.099	.913	1.037	1.062	.976	.840
33	.638	.842	.748	.892	.865	.750	.411

$\alpha = 20°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.709	.538	-.628	-5.750	-4.434	-2.617	-2.794
2	-.217	-.644	-1.448	-6.745	-5.643	-3.956	-3.743
3	-.433	-.862	-1.538	-5.934	-5.482	-3.974	-3.719
4	-.879	-1.419	-1.857	-5.730	-5.335	-4.013	-3.666
5	-1.165	-1.616	-1.695	-4.260	-4.259	-3.532	-3.203
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.073	-1.522	-1.658	-2.418	-2.540	-2.131	-1.984
11	-1.035	-1.501	.000.000	-1.760	-2.038	-1.680	-1.497
12	-1.512	-1.161	-1.074	-.930	-1.377	-1.072	-1.015
13	-1.041	-1.204	-1.031	-.920	-1.140	-.911	-.823
14	-1.393	-1.282	-1.099	-1.022	-1.233	-.978	-.788
15	-.999	-.457	-.235	-.239	-.327	-.267	-.157
16	-2.781	-2.686	-2.023	-1.973	-2.135	-2.060	-1.395
17	-4.087	-3.975	-3.003	-2.401	-3.435	-2.660	-1.839
18	-4.841	-4.399	-3.589	-2.525	-3.785	-3.169	-2.243
19	-4.397	-3.978	-3.226	-2.541	-3.497	-3.134	-1.977
20	-3.635	-3.021	-1.931	-2.098	-2.416	-2.070	-1.473
21	-2.641	-2.103	-1.242	-1.305	-1.769	-1.420	-1.054
22	-1.721	-.776	-.472	-.955	-.873	-.497	-.529
23	-1.215	-.725	-.515	-.338	-.289	-.479	-.681
24	-1.207	-.729	-.498	-.323	-.050	-.477	-.475
25	1.198	1.296	.420	-2.571	-1.415	-.221	-.588
26	.725	.992	.810	.283	.000.000	1.077	.515
27	.084	.494	.741	.955	1.101	1.007	.519
28	.013	.333	.604	.964	.871	.676	.385
29	.131	.579	.678	.780	.789	.667	.506
30	.183	.814	.758	.815	.787	.774	.073
31	.740	1.233	1.148	1.072	1.097	1.109	.350
32	.707	1.100	1.045	1.025	1.062	.998	.708
33	.588	.770	.695	.839	.852	.715	.483

$\alpha = 25°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.478	.059	-1.303	-6.887	-5.294	-2.888	-3.398
2	-.610	-1.228	-2.084	-7.495	-6.516	-4.444	-4.146
3	-.888	-1.537	-2.175	-7.369	-6.667	-4.672	-4.268
4	-1.265	-1.944	-2.285	-6.330	-5.740	-4.180	-3.710
5	-1.409	-2.029	-2.040	-4.857	-4.679	-3.542	-3.161
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.272	-1.400	-1.928	-2.892	-2.914	-2.165	-1.932
11	-1.185	-1.693	.000.000	-1.909	-2.192	-1.427	-1.229
12	-1.548	-1.224	-1.068	-.969	-1.348	-.871	-.743
13	-1.142	-1.333	-1.020	-1.029	-1.262	-.723	-.700
14	-1.014	-1.455	-1.168	-1.101	-1.259	-.901	-.819
15	-.997	-.485	-.247	-.252	-.341	-.214	-.243
16	-3.226	-3.100	-2.498	-2.098	-2.558	-1.799	-1.107
17	-4.244	-4.194	-3.398	-2.442	-3.171	-2.423	-1.753
18	-5.089	-4.668	-3.807	-2.515	-3.385	-2.571	-1.840
19	-4.816	-4.503	-3.820	-2.378	-3.305	-2.331	-1.690
20	-4.241	-3.356	-2.541	-2.031	-2.789	-2.022	-1.508
21	-2.807	-2.400	-1.727	-1.331	-1.801	-1.312	-1.001
22	-1.704	-.878	-.720	-.746	-.921	-.925	-.980
23	-1.515	-.872	-.446	-.248	-.290	-.350	-.394
24	-1.276	-.757	-.500	-.289	-.060	-.302	-.356
25	1.143	1.135	.095	-3.861	-2.205	-.423	-1.800
26	.992	1.206	1.045	.105	.000.000	1.066	.010
27	.510	.706	.755	.957	1.088	1.000	.306
28	.117	.499	.746	1.021	.967	.880	.401
29	.132	.627	.708	.831	.770	.631	.450
30	.168	.927	.871	.930	.856	.809	.110
31	.675	1.221	1.241	1.118	1.055	1.086	.163
32	.814	1.162	1.231	1.164	1.061	1.016	.659
33	.586	.807	.875	.929	.848	.682	.428

$\alpha = 30°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.108	-.575	-2.132	-9.018	-6.955	-3.804	-4.342
2	-.479	-1.446	-2.919	-9.147	-7.545	-4.746	-4.107
3	-1.311	-2.240	-3.129	-8.356	-7.226	-4.653	-3.736
4	-1.610	-2.476	-2.647	-6.779	-6.184	-4.053	-2.856
5	-1.714	-2.468	-2.643	-5.307	-4.972	-3.587	-2.861
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.413	-1.969	-2.148	-2.934	-2.861	-1.747	-1.250
11	-1.291	-1.742	.000.000	-1.744	-2.104	-1.051	-.704
12	-1.929	-1.423	-1.340	-1.046	-1.441	-.670	-.523
13	-1.394	-1.691	-1.223	-.981	-1.157	-.643	-.535
14	-1.769	-1.527	-1.379	-.976	-1.120	-.614	-.399
15	-1.247	-.510	-.396	-.210	-.242	-.070	-.209
16	-3.403	-3.451	-2.745	-2.008	-2.497	-1.692	-.903
17	-4.635	-4.914	-3.979	-2.330	-3.068	-1.808	-1.038
18	-5.388	-5.229	-4.446	-2.623	-3.700	-2.540	-1.466
19	-5.217	-5.232	-4.552	-2.304	-3.235	-1.894	-.950
20	-4.140	-3.434	-3.245	-1.977	-2.474	-1.122	-.568
21	-3.098	-2.552	-2.522	-1.382	-1.900	-1.240	-.910
22	-1.752	-1.172	-1.334	-.647	-.830	-.672	-.477
23	-1.581	-1.069	-.524	-.367	-.322	-.549	-.635
24	-1.508	-.928	-.679	-.320	-.110	-.294	-.296
25	1.140	.497	-.241	-4.894	-3.000	-1.902	-2.462
26	1.038	1.367	.991	-.186	.000.000	1.013	-.296
27	.437	.908	.969	.982	1.151	1.003	.236
28	.144	.566	.658	1.052	.951	.499	.315
29	.057	.695	.700	.851	.775	.549	.436
30	.011	1.030	.935	.979	.883	.857	.039
31	.547	1.298	1.248	1.171	1.089	1.086	.021
32	.720	1.181	1.092	1.109	1.041	.955	.573
33	.551	.841	.905	.997	.887	.609	.307

Table 8. - Continued.

(c) $C_{T,s} = 0.60$, $q_s = 21.43$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.202	-1.101	-2.481	-10.132	-7.817	-2.707	-2.840
2	-1.447	-2.644	-3.603	-10.193	-8.280	-3.651	-2.840
3	-1.021	-2.717	-3.609	-9.223	-7.692	-3.316	-1.908
4	-2.046	-3.013	-3.311	-7.749	-6.720	-2.253	-1.315
5	-2.066	-2.895	-3.016	-5.886	-5.261	-2.393	-.761
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.614	-2.262	-2.412	-2.978	-3.026	-.911	-1.008
11	-1.424	-1.904	*000.000	-1.827	-1.860	-.629	-.797
12	-1.731	-1.480	-1.204	-1.042	-1.044	-.532	-.475
13	-1.690	-1.665	-1.299	-1.039	-1.052	-.422	-.472
14	-1.948	-1.685	-1.308	-.968	-.955	-.420	-.376
15	-1.305	-.537	-.314	-.156	-.132	-.036	-.105
16	-3.566	-3.727	-2.838	-1.681	-1.702	-.919	-.580
17	-4.854	-5.470	-3.920	-2.145	-2.041	-.835	-.531
18	-5.517	-5.544	-4.370	-2.351	-2.114	-.899	-.665
19	-5.233	-5.492	-4.558	-2.242	-1.948	-.780	-.731
20	-3.866	-4.031	-3.543	-1.764	-1.384	-.591	-.549
21	-2.954	-2.978	-2.643	-1.212	-1.290	-.618	-.475
22	-1.982	-1.915	-1.470	-.891	-.820	-.574	-.556
23	-1.744	-1.147	-.507	-.394	-.399	-.469	-.458
24	-1.556	-1.104	-.468	-.257	-.184	-.383	-.350
25	1.053	.774	-.247	-5.630	-3.431	-.386	-1.854
26	1.113	1.323	1.122	-.324	*000.000	.956	-.174
27	.512	1.000	1.145	.891	1.152	.867	.268
28	.174	.623	.791	1.069	1.000	.449	.320
29	.004	.612	.710	.785	.743	.490	.318
30	-.099	.439	.933	.936	.854	.793	-.021
31	.508	1.337	1.336	1.204	1.139	1.027	.029
32	.665	1.210	1.246	1.151	1.077	.955	.393
33	.523	.847	1.028	1.000	.880	.570	.298

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.396	-1.025	-2.276	-3.288	-3.590	-2.666	-2.296
2	-1.484	-2.075	-2.630	-2.332	-3.359	-2.837	-.905
3	-1.724	-2.425	-2.990	-1.365	-3.294	-3.079	-.882
4	-2.095	-2.656	-2.703	-.722	-3.105	-2.648	-.420
5	-1.965	-2.479	-2.196	-.758	-1.310	-1.918	-.614
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.454	-1.813	-1.504	-.693	-1.047	-.588	-.398
11	-1.304	-1.545	*000.000	-.755	-.746	-.523	-.495
12	-1.145	-1.137	-.763	-.734	-.921	-.339	-.299
13	-1.331	-1.166	-.772	-.810	-.872	-.422	-.409
14	-1.724	-1.253	-.835	-.737	-.923	-.389	-.373
15	-1.291	-.577	-.146	-.064	-.040	.068	-.150
16	-3.218	-2.752	-1.498	-1.118	-.960	-.822	-.561
17	-4.331	-3.414	-1.349	-1.320	-1.316	-.797	-.685
18	-4.823	-3.581	-1.524	-1.098	-.895	-.755	-.674
19	-5.069	-3.395	-1.294	-.994	-.923	-.628	-.365
20	-4.423	-2.783	-1.171	-.774	-.670	-.562	-.574
21	-3.341	-1.668	-.914	-.684	-.571	-.518	-.471
22	-2.217	-1.403	-.825	-.590	-.554	-.413	-.421
23	-1.587	-.630	-.537	-.438	-.454	-.481	-.415
24	-1.244	-.534	-.511	-.424	-.422	-.351	-.314
25	.924	.716	-.353	-1.887	-1.652	-.322	-1.582
26	1.067	1.260	1.096	-.427	*000.000	.868	-.047
27	.549	1.033	1.180	1.074	1.150	.821	.347
28	.179	.657	.784	1.005	.912	.459	.441
29	.051	.663	.757	.831	.703	.531	.387
30	-.118	.978	.946	.992	.811	.797	.133
31	.444	1.217	1.225	1.105	.989	.993	.096
32	.605	1.129	1.170	1.119	.968	.937	.442
33	.514	.825	.941	.925	.790	.582	.255

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.653	-1.356	-2.356	-2.635	-3.248	-1.725	-.850
2	-1.464	-2.779	-3.397	-1.844	-3.703	-2.188	-.488
3	-2.123	-2.879	-3.292	-1.054	-2.832	-1.616	-.455
4	-2.426	-2.947	-2.765	-.519	-1.721	-1.760	-.388
5	-2.293	-2.771	-2.409	-.563	-.943	-.652	-.502
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.541	-1.831	-1.432	-.549	-.684	-.464	-.354
11	-1.345	-1.519	*000.000	-.585	-.864	-.406	-.415
12	-.998	-1.103	-.643	-.506	-.500	-.309	-.333
13	-1.301	-1.037	-.609	-.534	-.417	-.304	-.343
14	-1.665	-1.028	-.599	-.529	-.440	-.320	-.433
15	-1.331	-.602	.015	.112	.066	.062	-.190
16	-3.163	-2.149	-1.033	-.921	-.858	-.770	-.631
17	-4.342	-3.063	-1.489	-.966	-.803	-.588	-.452
18	-5.265	-3.154	-1.237	-.859	-.737	-.713	-.657
19	-5.019	-3.200	-1.313	-.810	-.698	-.496	-.341
20	-4.128	-2.406	-1.003	-.695	-.644	-.560	-.489
21	-3.008	-1.480	-.701	-.535	-.575	-.525	-.476
22	-2.348	-1.090	-.662	-.477	-.517	-.492	-.413
23	-1.471	-.679	-.567	-.510	-.491	-.502	-.429
24	-.760	-.532	-.519	-.442	-.447	-.372	-.384
25	.829	.496	-.474	-1.818	-1.374	-.776	-1.187
26	1.075	1.248	1.085	.483	*000.000	.334	.008
27	.495	.988	1.093	1.028	1.009	.447	.316
28	.180	.689	.837	1.085	.922	.384	.432
29	-.014	.709	.811	.890	.722	.493	.437
30	-.228	.935	.937	.983	.782	.765	.081
31	.341	1.154	1.189	1.130	.941	.930	.077
32	.525	1.066	1.126	1.105	.918	.850	.410
33	.536	.831	.976	1.011	.774	.545	.239

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.982	-2.231	-3.373	-3.307	-4.646	-1.267	-.655
2	-2.258	-3.326	-3.742	-1.367	-4.853	-.959	-.428
3	-2.770	-3.943	-4.634	-.976	-3.842	-.578	-.356
4	-2.912	-3.833	-3.934	-.836	-3.004	-.398	-.500
5	-2.840	-3.527	-3.291	-.965	-1.754	-.436	-.517
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.805	-2.114	-1.785	-.776	-1.359	-.314	-.404
11	-1.487	-1.632	*000.000	-.849	-1.155	-.345	-.398
12	-1.407	-1.229	-.855	-.737	-.833	-.308	-.381
13	-1.500	-.999	-.655	-.716	-.603	-.280	-.389
14	-2.115	-1.378	-.801	-.848	-.629	-.276	-.494
15	-1.351	-.551	-.037	.059	.077	.094	-.272
16	-3.312	-2.452	-1.346	-1.029	-.924	-.651	-.708
17	-4.608	-3.085	-1.348	-.988	-.857	-.717	-.875
18	-4.564	-2.705	-1.316	-.900	-.832	-.628	-.578
19	-4.348	-2.494	-1.158	-.791	-.730	-.603	-.607
20	-3.877	-2.582	-1.158	-.792	-.733	-.559	-.771
21	-3.144	-1.559	-.732	-.634	-.588	-.527	-.529
22	-1.918	-1.106	-.646	-.515	-.485	-.489	-.513
23	-1.499	-.639	-.577	-.508	-.500	-.466	-.509
24	-.698	-.495	-.469	-.415	-.411	-.385	-.431
25	.725	.093	-1.104	-2.497	-2.353	-1.056	-1.281
26	1.064	1.231	1.024	.286	*000.000	-.351	-.181
27	.605	1.164	1.240	1.075	1.134	.017	.217
28	.156	.764	.911	1.133	.909	.395	.404
29	-.068	.696	.815	.866	.578	.439	.360
30	-.300	1.008	1.015	.974	.621	.743	-.085
31	.381	1.282	1.275	1.206	1.029	.934	-.052
32	.567	1.157	1.202	.953	.920	.862	.299
33	.435	.812	1.004	.783	.654	.468	.148

Table 8.- Concluded.

(d) $C_{T,S} = 0.30$, $q_s = 19.26$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.471	1.084	.572	-.502	-.536	-.293	-.309
2	.505	.416	-.211	-1.421	-1.318	-1.125	-1.088
3	.244	.164	-.309	-1.789	-1.712	-1.242	-1.206
4	-.255	-.467	-.917	-2.299	-2.136	-2.013	-1.973
5	-.647	-.984	-1.359	-2.269	-2.201	-1.985	-1.886
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.772	-1.199	-1.600	-1.790	-1.623	-1.490	-1.388
11	-.883	-1.307	.000.000	-1.577	-1.729	-1.499	-1.438
12	-1.491	-1.103	-1.096	-1.010	-1.378	-1.196	-1.167
13	-.814	-1.090	-.971	-.993	-1.170	-1.065	-.975
14	-1.049	-1.174	-1.005	-1.027	-1.209	-1.066	-.942
15	-.596	-.209	-.152	-.248	-.287	-.215	-.291
16	-2.262	-2.407	-1.548	-2.016	-2.315	-2.054	-1.560
17	-3.288	-3.402	-2.243	-2.707	-3.053	-2.508	-2.060
18	-3.674	-3.040	-2.515	-3.060	-3.335	-2.786	-2.180
19	-3.774	-3.359	-2.046	-2.574	-2.947	-2.608	-2.006
20	-3.214	-2.362	-1.141	-2.153	-1.960	-1.806	-1.512
21	-2.435	-1.357	-.588	-1.308	-1.154	-.822	-.840
22	-2.062	-.635	-.607	-.543	-.403	-.607	-.648
23	-1.194	-.584	-.440	-.538	-.452	-.490	-.513
24	-.984	-.505	-.432	-.367	-.383	-.364	-.450
25	.752	.933	.647	.480	.935	.939	.870
26	.155	.247	.554	.708	.000.000	1.016	.917
27	-.262	-.095	.126	.661	.632	.545	.536
28	-.103	.057	.253	.449	.451	.425	.393
29	.120	.418	.419	.434	.622	.599	.483
30	.171	.774	.538	.771	.685	.709	-.129
31	.726	1.149	.665	1.071	1.019	.974	.838
32	.760	1.090	.658	1.027	.993	.929	.891
33	.523	.738	.511	.712	.704	.630	.514

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.734	.692	-.450	-2.551	-1.920	-1.267	-1.204
2	.005	-.229	-1.234	-3.604	-3.043	-2.458	-2.332
3	-.248	-.694	-1.587	-3.823	-3.414	-2.559	-2.334
4	-.893	-1.140	-1.816	-3.664	-3.390	-2.939	-2.775
5	-1.089	-1.720	-2.161	-3.436	-3.402	-3.047	-2.834
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.991	-1.501	-1.886	-2.657	-2.108	-1.846	-1.669
11	-1.152	-1.690	.000.000	-1.922	-2.174	-1.889	-1.746
12	-1.666	-1.289	-1.252	-1.106	-1.498	-1.384	-1.300
13	-.903	-1.157	-1.031	-.916	-1.194	-1.118	-.953
14	-1.314	-1.338	-1.142	-1.029	-1.267	-1.206	-1.036
15	-.730	-.307	-.174	-.263	-.338	-.327	-.261
16	-2.650	-2.775	-1.861	-2.062	-2.266	-2.414	-1.833
17	-3.938	-3.600	-2.528	-2.991	-2.842	-2.390	-1.821
18	-4.455	-4.040	-3.097	-2.736	-3.135	-2.981	-2.140
19	-4.097	-3.449	-2.684	-2.450	-2.696	-2.576	-1.721
20	-3.505	-2.597	-1.645	-1.822	-1.697	-1.863	-1.360
21	-2.500	-1.387	-.919	-.970	-.857	-1.520	-.971
22	-1.887	-.556	-.737	-.751	-.501	-.559	-.724
23	-1.237	-.609	-.583	-.455	-.334	-.342	-.398
24	-1.046	-.560	-.551	-.396	-.304	-.422	-.399
25	.996	1.214	.437	-.559	.251	.580	.574
26	.651	.930	.712	.676	.000.000	1.091	1.058
27	.020	.303	.450	.746	.916	.800	.808
28	-.029	.197	.419	.605	.625	.524	.470
29	.174	.521	.554	.705	.735	.680	.630
30	.138	.499	.692	.845	.807	.751	-.059
31	.752	1.326	.844	1.162	1.108	1.044	.822
32	.708	1.078	.708	.989	.972	.892	.824
33	.528	.788	.586	.794	.735	.646	.506

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.383	.132	-1.599	-4.212	-3.624	-2.766	-2.729
2	-.665	-1.218	-2.828	-5.756	-4.852	-4.135	-3.903
3	-.905	-1.536	-2.752	-5.461	-5.236	-4.492	-4.199
4	-1.406	-2.148	-2.907	-5.280	-4.762	-4.206	-4.056
5	-1.427	-2.141	-2.568	-4.119	-4.100	-3.688	-3.570
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.216	-1.809	-2.138	-2.624	-2.359	-2.259	-2.121
11	-1.145	-1.692	.000.000	-1.879	-2.114	-1.861	-1.813
12	-1.945	-1.390	-1.317	-1.088	-1.575	-1.457	-1.411
13	-1.173	-1.365	-1.173	-.894	-1.306	-1.229	-1.109
14	-1.689	-1.507	-1.228	-1.198	-1.303	-1.256	-1.121
15	-1.122	-.472	-.236	-.326	-.427	-.458	-.471
16	-3.015	-2.898	-2.026	-1.982	-2.188	-2.320	-1.815
17	-4.410	-4.188	-3.171	-2.506	-2.737	-2.628	-1.921
18	-4.896	-4.382	-3.517	-2.441	-2.896	-2.941	-2.173
19	-4.627	-4.102	-3.402	-2.528	-2.983	-2.631	-1.754
20	-3.742	-3.011	-2.300	-1.851	-1.853	-2.032	-1.497
21	-2.827	-1.892	-1.070	-1.109	-1.210	-1.637	-.953
22	-1.938	-.722	-.681	-.507	-.465	-.586	-.774
23	-1.487	-.686	-.531	-.372	-.376	-.403	-.387
24	-1.267	-.618	-.436	-.388	-.321	-.386	-.389
25	1.107	1.205	-.240	-2.014	-1.011	-.482	-.557
26	.945	1.214	.809	.513	.000.000	1.005	.886
27	.241	.581	.693	.887	1.015	.943	.796
28	.109	.341	.574	.822	.770	.692	.588
29	.154	.603	.671	.834	.756	.680	.580
30	.261	.951	.800	.896	.801	.776	-.071
31	.884	1.222	.884	1.029	.982	.959	.583
32	.767	1.132	.892	1.051	.944	.897	.848
33	.580	.848	.656	.984	.771	.665	.471

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.101	-.694	-2.752	-6.942	-5.803	-4.143	-4.140
2	-1.347	-2.273	-3.825	-7.735	-6.708	-5.530	-5.334
3	-1.737	-2.784	-4.336	-7.916	-7.298	-5.850	-5.602
4	-1.922	-2.916	-3.775	-7.136	-6.279	-5.136	-5.020
5	-2.101	-3.146	-3.688	-5.606	-5.327	-4.588	-4.438
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.595	-2.353	-2.778	-3.211	-3.062	-2.854	-2.880
11	-1.418	-2.024	.000.000	-2.206	-2.417	-2.119	-2.123
12	-1.949	-1.456	-1.385	-1.150	-1.581	-1.453	-1.435
13	-1.510	-1.559	-1.325	-1.286	-1.396	-1.308	-1.199
14	-2.127	-1.763	-1.390	-1.164	-1.290	-1.223	-1.059
15	-1.269	-.495	-.278	-.297	-.416	-.423	-.253
16	-3.574	-3.080	-2.184	-2.129	-2.174	-2.373	-1.683
17	-5.313	-4.783	-3.569	-2.827	-2.546	-2.594	-2.039
18	-5.612	-5.008	-3.781	-2.773	-2.764	-3.241	-2.305
19	-5.033	-4.492	-3.492	-2.584	-2.473	-2.737	-1.911
20	-4.185	-3.258	-2.308	-1.992	-1.670	-2.388	-1.794
21	-3.268	-1.938	-.964	-1.241	-1.051	-1.525	-1.279
22	-2.147	-.899	-.639	-.554	-.466	-1.079	-1.020
23	-1.602	-.723	-.540	-.344	-.273	-.306	-.410
24	-1.411	-.779	-.466	-.388	-.244	-.311	-.425
25	1.072	1.049	-.681	-3.438	-2.499	-1.515	-1.850
26	1.138	1.373	.868	-.011	.000.000	.808	.486
27	.535	.894	.942	1.002	1.100	1.095	.848
28	.239	.588	.780	.983	.943	.825	.598
29	.196	.710	.774	.847	.880	.772	.658
30	.099	.971	.879	.862	.809	.803	.004
31	.646	1.429	1.302	1.145	1.081	1.090	.456
32	.746	1.215	1.049	1.138	.991	.952	.733
33	.605	.876	.803	1.042	.822	.726	.488

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.612	-1.175	-3.070	-4.462	-3.189	-4.157	-4.251
2	-1.883	-2.560	-3.559	-3.615	-3.135	-5.210	-5.099
3	-1.950	-2.648	-3.498	-3.452	-3.070	-5.157	-5.029
4	-2.254	-3.059	-3.376	-1.668	-2.991	-5.054	-4.979
5	-2.287	-3.164	-3.147	-1.950	-2.076	-4.520	-4.391
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.512	-2.090	-1.956	-.888	-.860	-2.470	-2.491
11	-1.267	-1.674	.000.000	-.649	-.656	-1.797	-1.761
12	-1.327	-1.288	-.953	-.695	-.792	-1.412	-1.341
13	-1.140	-1.098	-.713	-.662	-.691	-1.054	-1.001
14	-2.006	-1.573	-1.043	-.944	-.778	-1.078	-1.078
15	-1.302	-.520	-.224	-.092	-.176	-.289	-.520
16	-3.343	-2.817	-1.609	-1.248	-1.259	-1.890	-1.756
17	-4.843	-4.300	-2.824	-1.473	-1.322	-1.772	-1.840
18	-5.416	-4.941	-3.865	-1.406	-1.247	-2.266	-2.500
19	-5.676	-4.977	-2.267	-1.711	-1.408	-2.222	-2.272
20	-3.919	-3.548	-1.790	-1.189	-1.247	-1.548	-1.634
21	-3.666	-2.402	-1.162	-.972	-1.024	-1.065	-1.383
22	-2.742	-1.653	-.701	-.769	-.789	-.792	-1.150
23	-1.887	-.802	-.607	-.563	-.664	-.700	-.884
24	-1.257	-.380	-.518	-.417	-.516	-.489	-.456
25	.920	.957	-.555	-1.410	-.672	-1.172	-1.331
26	1.033	1.240	.781	.513	.000.000	.743	.489
27	.628	.963	.941	1.067	1.044	1.006	.818
28	.303	.682	.832	1.047	.919	.839	.674
29	.147	.729	.772	.859	.806	.730	.663
30	.023	.950	.846	.871	.758	.744	-.073
31	.491	1.357	1.327	1.199	1.034	1.026	.801
32	.694	1.212	1.146	1.128	.922	.878	.673
33	.602	.881	.878	.879	.726	.641	.348

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.938	-1.631	-3.376	-3.288	-3.268	-5.101	-5.565
2	-2.204	-2.940	-3.840	-3.217	-3.381	-6.303	-6.122
3	-2.419	-3.269	-3.945	-2.514	-2.921	-5.693	-5.583
4	-2.597	-3.368	-3.467	-1.198	-2.080	-5.301	-5.165
5	-2.524	-3.293	-3.031	-.852	-1.259	-4.421	-4.256
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.647	-2.152	-1.745	-.570	-.582	-2.449	-2.496
11	-1.218	-1.547	.000.000	-.582	-.581	-1.758	-1.763
12	-1.082	-1.194	-.742	-.540	-.791	-1.436	-1.400
13	-1.245	-1.162	-.810	-.684	-.749	-1.021	-1.038
14	-1.781	-1.195	-.649	-.666	-.749	-1.106	-1.135
15	-1.206	-.503	-.128	.002	-.161	-.302	-.576
16	-3.244	-2.903	-1.799	-1.349	-1.255	-1.912	-1.698
17	-4.194	-4.204	-2.319	-1.363	-1.233	-1.950	-1.944
18	-4.752	-4.207	-1.945	-1.320	-1.334	-2.433	-2.436
19	-5.418	-3.580	-1.477	-1.009	-1.218	-2.429	-2.288
20	-3.100	-2.876	-1.352	-.781	-.969	-1.577	-1.736
21	-2.471	-2.700	-1.370	-.456	-.706	-.696	-1.163
22	-2.307	-1.541	-.945	-.598	-.970	-.945	-1.159
23	-1.995	-.902	-.705	-.506	-.844	-.830	-.928
24	-1.164	-.475	-.473	-.429	-.617	-.558	-.480
25	.654	.563	-1.044	-1.828	-1.371	-1.984	-2.828
26	1.048	1.241	.885	.542	.000.000	.546	-.014
27	.784	1.158	1.198	1.110	1.059	1.023	.728
28	.378	.747	.912	.989	.907	.818	.645
29	.172	.787	.836	.905	.827	.733	.671
30	-.007	1.051	.974	.905	.836	.792	-.091
31	.518	1.347	1.299	1.118	1.026	.985	.756
32	.681	1.266	1.268	1.157	.988	.954	.767
33	.564	.927	1.030	.913	.752	.680	.441

Table 9.- Pressure coefficients for wing with propeller rotation down at tip, inboard slat, $\delta_f = 20°$.

(a) $C_{T,s} = 0.90$, $q_s = 20.18$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.959	.819	-.192	.848	1.132	1.054	.379
2	1.029	1.313	.827	.822	1.101	1.130	.442
3	.917	1.266	.988	.763	.928	.958	.232
4	.604	1.011	1.101	.709	.663	.653	.031
5	.190	.622	.714	.461	.327	.252	-.002
6	*000.000	*000.000	*000.000	-.092	-.039	-.045	-.093
7	*000.000	*000.000	*000.000	.340	.462	.486	.284
8	*000.000	*000.000	*000.000	-.498	-.583	-.419	-.256
9	*000.000	*000.000	*000.000	-1.414	-1.422	-1.236	-.642
10	-.142	-.037	-.132	-1.282	-1.142	-.915	-.374
11	-.319	-.450	*000.000	-.960	-.900	-.553	-.333
12	-.503	-.406	-.403	-.554	-.577	-.339	-.184
13	-.172	-.362	-.410	-.424	-.447	-.288	-.144
14	-.158	-.310	-.335	-.367	-.400	-.192	-.112
15	-.153	-1.149	.315	.379	.322	.394	.001
16	.023	.281	.306	.397	.345	.285	.105
17	.032	.252	.295	.360	.280	.302	.100
18	.021	.220	.150	.298	.231	.192	.099
19	-.023	.084	-.019	.068	-.034	.172	.050
20	-.216	-.293	-.349	-.498	-.498	-.300	-.165
21	-.413	-.582	-.670	-.752	-.780	-.522	-.230
22	-.471	-.677	-.671	-.788	-.770	-.565	-.234
23	-.198	-.100	-.151	-.169	-.236	-.252	-.239
24	-.072	.120	.053	.186	.136	.063	-.032
25	-.250	-.855	-2.333	.382	.400	.396	.345
26	-.742	-1.737	-2.303	-.007	*000.000	.164	.587
27	-.762	-1.060	-1.382	.077	.339	.102	.033
28	-.250	-.406	-.353	.623	.019	.067	.095
29	-.082	.127	.179	.419	.406	.315	.285
30	.291	.839	.414	.892	.855	.602	.338
31	-.028	.553	.487	.681	.700	.611	.422
32	.023	.319	.468	.544	.532	.462	.459
33	-.009	.269	.349	.417	.421	.350	.150

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.019	.947	-.024	.712	1.083	1.144	.499
2	.976	1.179	.761	.640	.924	1.010	.249
3	.874	1.113	.937	.550	.769	.904	.048
4	.498	.828	.936	.435	.543	.497	-.052
5	.127	.387	.540	.194	.180	.172	-.123
6	*000.000	*000.000	*000.000	.148	-.016	0.	-.020
7	*000.000	*000.000	*000.000	.075	.363	.489	.121
8	*000.000	*000.000	*000.000	-.747	-.755	-.612	-.404
9	*000.000	*000.000	*000.000	-1.652	-1.719	-1.416	-.738
10	-.155	-.212	-.150	-1.382	-1.267	-1.011	-.505
11	-.314	-.564	*000.000	-1.035	-1.002	-.666	-.313
12	-.534	-.440	-.395	-.606	-.591	-.314	-.212
13	-.159	-.405	-.370	-.416	-.424	-.281	-.160
14	-.150	-.358	-.320	-.344	-.403	-.222	-.163
15	-.141	-1.240	.345	.398	.283	.450	-.034
16	.012	.271	.285	.421	.358	.353	.029
17	.073	.202	.266	.335	.349	.330	.017
18	.073	.151	.237	.293	.282	.219	.047
19	-.002	.013	.051	.029	-.024	.236	-.039
20	-.219	-.303	-.287	-.460	-.485	-.331	-.197
21	-.405	-.602	-.623	-.680	-.752	-.481	-.298
22	-.474	-.700	-.671	-.728	-.753	-.504	-.389
23	-.211	-.157	-.169	-.184	-.256	-.279	-.326
24	-.126	.075	.096	.164	.165	.092	-.084
25	.032	-.398	-1.446	.551	.587	.491	.395
26	-.529	-1.227	-1.602	-.055	*000.000	.139	.464
27	-.682	-.959	-1.126	.235	.277	.047	.011
28	-.205	-.391	-.208	.592	.112	.051	.026
29	-.070	.118	.222	.426	.432	.304	.326
30	.485	.934	.477	.894	1.001	.742	.492
31	.209	.586	.528	.734	.718	.697	.532
32	.086	.311	.452	.548	.548	.520	.512
33	-.034	.270	.314	.435	.440	.383	.039

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.056	1.056	.208	.587	1.064	1.112	.431
2	.954	1.239	.827	.425	.873	.975	.092
3	.785	1.071	.871	.312	.609	.745	.107
4	.409	.692	.809	.243	.328	.368	-.308
5	.024	.269	.464	.088	.014	-.045	-.342
6	*000.000	*000.000	*000.000	.200	.016	.044	-.047
7	*000.000	*000.000	*000.000	-.201	.116	.311	.006
8	*000.000	*000.000	*000.000	-.955	-.887	-.720	-.513
9	*000.000	*000.000	*000.000	-1.842	-1.819	-1.503	-.923
10	-.284	-.273	-.276	-1.563	-1.421	-1.122	-.612
11	-.413	-.600	*000.000	-1.073	-1.036	-.645	-.434
12	-.598	-.473	-.421	-.593	-.618	-.351	-.218
13	-.232	-.423	-.388	-.435	-.467	-.295	-.234
14	-.252	-.359	-.318	-.375	-.414	-.259	-.261
15	-.175	-1.265	.312	.390	.279	.345	-.218
16	.021	.268	.273	.378	.346	.422	.006
17	.084	.205	.277	.356	.340	.402	-.026
18	.089	.188	.165	.295	.276	.278	-.051
19	-.005	.032	.022	.018	-.037	.239	-.103
20	-.350	-.361	-.361	-.564	-.576	-.451	-.347
21	-.499	-.629	-.651	-.714	-.738	-.439	-.357
22	-.536	-.681	-.707	-.730	-.730	-.610	-.444
23	-.293	-.145	-.177	-.183	-.288	-.322	-.414
24	-.147	.102	.091	.158	.141	.008	-.224
25	.084	-.160	-1.180	.644	.692	.550	.330
26	-.363	-1.054	-1.486	-.069	*000.000	.130	.390
27	-.608	-.802	-.901	.397	-.133	.028	-.055
28	-.195	-.346	-.263	.584	.665	.097	.161
29	-.128	.159	.234	.456	.446	.429	.314
30	.480	.905	.574	.862	.969	1.014	.608
31	.162	.592	.493	.667	.676	.735	.608
32	.023	.360	.366	.518	.528	.520	.517
33	-.071	.287	.288	.401	.419	.371	.042

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.091	1.104	.445	.403	1.024	1.103	.315
2	.900	1.100	.829	-.024	.591	.824	.066
3	.703	.971	.808	-.049	.400	.562	-.064
4	.316	.619	.728	-.159	.126	.241	-.288
5	-.024	.137	.272	-.247	-.169	-.132	-.416
6	*000.000	*000.000	*000.000	.193	.046	.079	-.054
7	*000.000	*000.000	*000.000	-.455	-.257	.067	-.133
8	*000.000	*000.000	*000.000	-1.222	-1.179	-.823	-.722
9	*000.000	*000.000	*000.000	-2.023	-2.061	-1.667	-1.156
10	-.249	-.371	-.387	-1.664	-1.561	-1.172	-.791
11	-.421	-.675	*000.000	-1.125	-1.129	-.703	-.456
12	-.633	-.526	-.484	-.641	-.652	-.380	-.274
13	-.231	-.454	-.402	-.467	-.480	-.268	-.249
14	-.284	-.413	-.379	-.422	-.460	-.254	-.251
15	-.064	-1.286	.297	.390	.243	.411	-.379
16	.079	.261	.301	.450	.340	.479	-.172
17	.096	.227	.249	.378	.335	.442	-.128
18	.091	.147	.240	.290	.245	.309	-.057
19	-.014	-.020	.039	.011	-.081	.363	-.123
20	-.376	-.401	-.343	-.509	-.562	-.394	-.323
21	-.496	-.698	-.642	-.725	-.735	-.521	-.423
22	-.519	-.799	-.715	-.666	-.678	-.485	-.528
23	-.337	-.229	-.228	-.186	-.259	-.337	-.470
24	-.200	.074	.079	.171	.117	.050	-.171
25	.292	.092	-.733	.721	.828	.694	.367
26	-.143	-.718	-1.160	-.052	*000.000	.104	.249
27	-.533	-.706	-.800	.625	-.175	0.	-.085
28	-.172	-.332	-.229	.617	.822	.198	.252
29	-.075	.153	.227	.680	.454	.468	.351
30	.576	.960	.530	.871	.997	1.054	.821
31	.235	.607	.620	.718	.693	.792	.642
32	.100	.369	.397	.541	.528	.552	.546
33	-.069	.289	.341	.425	.392	.395	.015

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.067	1.194	.762	.163	.983	1.078	.051
2	.789	1.077	.895	-.298	.525	.678	-.199
3	.589	.832	.875	-.390	.226	.395	-.310
4	.199	.418	.648	-.564	-.102	-.033	-.543
5	-.153	-.013	.199	-.499	-.322	-.353	-.571
6	*000.000	*000.000	*000.000	.109	.100	-.054	-.019
7	*000.000	*000.000	*000.000	-.776	-.419	-.243	-.260
8	*000.000	*000.000	*000.000	-1.560	-1.414	-1.088	-.733
9	*000.000	*000.000	*000.000	-2.354	-2.319	-1.947	-1.178
10	-.350	-.467	-.496	-1.748	-1.623	-1.310	-.840
11	-.443	-.701	*000.000	-1.072	-1.068	-.739	-.384
12	-.684	-.519	-.512	-.665	-.628	-.436	-.212
13	-.275	-.493	-.366	-.449	-.430	-.348	-.201
14	-.297	-.423	-.316	-.415	-.380	-.256	-.217
15	-.077	-1.342	.315	.449	.277	.341	-.295
16	.062	.278	.293	.416	.366	.396	-.104
17	.049	.222	.321	.386	.357	.416	-.011
18	.076	.177	.209	.309	.262	.279	.034
19	-.057	-.009	.073	.007	-.037	.340	-.043
20	-.390	-.466	-.424	-.550	-.518	-.382	-.351
21	-.557	-.788	-.700	-.679	-.652	-.454	-.401
22	-.568	-.770	-.700	-.662	-.571	-.499	-.509
23	-.467	-.277	-.147	-.205	-.213	-.367	-.526
24	-.330	.081	.090	.115	.130	-.006	-.100
25	.395	.386	-.316	.695	.961	.730	.269
26	-.009	-.377	-.763	.150	*000.000	.054	.297
27	-.466	-.485	-.557	.776	-.146	-.066	.018
28	-.132	-.249	-.136	.623	.739	.474	.293
29	-.137	.145	.339	.497	.487	.401	.362
30	.593	1.037	.778	.925	1.016	1.063	.776
31	.176	.568	.668	.690	.677	.722	.545
32	.026	.394	.509	.573	.568	.511	.575
33	-.067	.306	.379	.432	.413	.341	.194

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.084	1.244	.889	.067	.918	1.162	-.038
2	.696	.956	.880	-.518	.315	.365	-.395
3	.481	.732	.783	-.658	.071	.191	-.474
4	.122	.299	.550	-.689	-.225	-.159	-.507
5	-.281	-.163	.166	-.696	-.458	-.423	-.522
6	*000.000	*000.000	*000.000	.103	.036	-.010	-.039
7	*000.000	*000.000	*000.000	-.849	-.487	-.217	-.242
8	*000.000	*000.000	*000.000	-1.647	-1.390	-.943	-.622
9	*000.000	*000.000	*000.000	-2.406	-2.228	-1.696	-.961
10	-.396	-.533	-.469	-1.797	-1.593	-1.105	-.509
11	-.493	-.780	*000.000	-1.061	-.963	-.401	-.218
12	-.725	-.557	-.492	-.590	-.526	-.390	-.228
13	-.311	-.461	-.366	-.392	-.366	-.286	-.134
14	-.370	-.444	-.366	-.398	-.418	-.256	-.186
15	-.102	-1.193	.234	.426	.237	.324	-.301
16	.014	.205	.391	.427	.314	.366	-.086
17	.050	.187	.345	.378	.295	.319	-.062
18	.005	.086	.283	.302	.255	.259	.047
19	-.075	-.077	.043	-.005	-.144	.295	-.102
20	-.456	-.561	-.417	-.535	-.516	-.391	-.202
21	-.642	-.831	-.670	-.608	-.603	-.455	-.304
22	-.709	-.894	-.706	-.587	-.486	-.286	-.244
23	-.612	-.343	-.207	-.182	-.289	-.242	-.173
24	-.418	.067	.130	.093	.081	-.126	-.142
25	.454	.536	-.069	.788	.923	.837	.050
26	.014	-.172	-.455	.096	*000.000	.021	.285
27	-.449	-.424	-.454	.916	.158	-.097	-.010
28	-.180	-.198	-.119	.659	.753	.490	.261
29	-.142	.142	.292	.501	.445	.356	.289
30	.629	1.031	.939	.930	.942	1.022	.633
31	.167	.544	.599	.676	.641	.641	.580
32	.073	.368	.434	.539	.486	.402	.538
33	-.036	.261	.345	.381	.302	.281	.012

Table 9.- Continued.

(a) $C_{T,s} = 0.90$, $q_s = 20.18$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.010	1.126	.827	.062	.727	.949	-.414
2	.678	.827	.829	-.740	.139	.298	-.856
3	.409	.554	.754	-.856	-.139	-.025	-.757
4	.028	.179	.415	-1.048	-.512	-.425	-.731
5	-.356	-.288	.052	-.843	-.597	-.594	-.698
6	*000.000	*000.000	*000.000	.095	.020	-.019	-.114
7	*000.000	*000.000	*000.000	-.930	-.510	-.366	-.350
8	*000.000	*000.000	*000.000	-1.844	-1.572	-1.195	-.662
9	*000.000	*000.000	*000.000	-2.273	-2.196	-1.674	-.905
10	-.480	-.612	-.483	-1.781	-1.558	-.909	-.221
11	-.514	-.832	*000.000	-1.004	-.861	-.393	-.301
12	-.761	-.589	-.443	-.436	-.305	-.311	-.150
13	-.428	-.566	-.339	-.260	-.386	-.239	-.284
14	-.413	-.482	-.368	-.285	-.410	-.250	-.164
15	-.243	-1.192	.259	.453	.229	.302	-.293
16	-.066	.048	.308	.472	.365	.387	-.039
17	-.012	.081	.286	.392	.282	.428	-.019
18	-.009	.078	.202	.327	.211	.257	-.055
19	-.166	-.116	.010	.042	-.120	.213	-.052
20	-.585	-.592	-.441	-.418	-.531	-.476	-.219
21	-.768	-.887	-.708	-.392	-.471	-.453	-.154
22	-.825	-.944	-.804	-.330	-.283	-.221	-.174
23	-.717	-.433	-.235	-.213	-.266	-.162	-.218
24	-.474	.044	.129	-.049	-.141	-.246	-.189
25	.593	.738	.233	.823	.490	.915	-.068
26	.154	.080	-.203	.124	*000.000	.019	.280
27	-.440	-.295	-.202	.931	.173	-.088	.065
28	-.190	-.189	-.016	.673	.750	.552	.257
29	-.120	.143	.287	.480	.412	.398	.271
30	.843	1.070	.997	.956	.998	1.005	.756
31	.183	.550	.641	.685	.629	.693	.508
32	.088	.344	.520	.498	.453	.443	.528
33	-.055	.310	.324	.324	.265	.210	.027

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.070	1.218	.754	-.068	.644	.816	-.670
2	.586	.721	.751	-.918	-.020	.045	-.881
3	.342	.445	.579	-1.012	-.383	-.284	-.971
4	-.065	.015	.310	-1.139	-.606	-.586	-.998
5	-.399	-.399	-.167	-1.065	-.796	-.808	-.879
6	*000.000	*000.000	*000.000	.130	.088	-.057	-.085
7	*000.000	*000.000	*000.000	-1.002	-.568	-.441	-.359
8	*000.000	*000.000	*000.000	-1.749	-1.470	-1.093	-.677
9	*000.000	*000.000	*000.000	-2.375	-2.197	-1.554	-.481
10	-.517	-.659	-.540	-1.624	-1.303	-.545	-.150
11	-.520	-.813	*000.000	-.582	-.314	-.288	-.220
12	-.745	-.624	-.576	-.207	-.262	-.325	-.364
13	-.448	-.523	-.464	-.258	-.276	-.372	-.343
14	-.483	-.526	-.390	-.233	-.378	-.276	-.159
15	-.426	-1.180	.315	.498	.220	.398	-.480
16	-.034	.018	.257	.459	.279	.343	-.201
17	-.009	.047	.235	.453	.330	.413	-.105
18	-.028	.084	.163	.365	.267	.144	-.057
19	-.165	-.125	-.105	.090	-.078	.232	-.107
20	-.666	-.650	-.515	-.406	-.427	-.511	-.330
21	-.942	-1.020	-.827	-.404	-.385	-.381	-.240
22	-1.007	-1.029	-.838	-.325	-.332	-.292	-.347
23	-.850	-.617	-.421	-.336	-.366	-.342	-.465
24	-.436	.045	.049	-.206	-.246	-.238	-.294
25	.665	.781	.375	.800	1.000	1.027	-.120
26	.149	.197	.063	.068	*000.000	.081	.232
27	-.376	-.200	-.149	1.024	.200	-.070	.266
28	-.141	-.129	-.083	.702	.715	.617	.293
29	-.179	.154	.220	.578	.428	.331	.322
30	.921	1.086	.931	1.046	.971	1.007	.633
31	.275	.554	.515	.722	.638	.728	.594
32	.112	.377	.432	.551	.465	.509	.500
33	-.051	.304	.322	.379	.293	.271	-.081

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.963	1.110	.739	-.260	.581	.589	-.985
2	.493	.631	.680	-1.024	-.115	-.200	-1.095
3	.267	.322	.280	-1.189	-.431	-.441	-1.184
4	-.131	-.092	.250	-1.199	-.656	-.822	-1.219
5	-.522	-.536	-.366	-1.141	-.805	-1.014	-.993
6	*000.000	*000.000	*000.000	.098	.141	-.043	-.144
7	*000.000	*000.000	*000.000	-1.050	-.616	-.461	-.435
8	*000.000	*000.000	*000.000	-1.818	-1.448	-1.023	-.645
9	*000.000	*000.000	*000.000	-2.308	-1.995	-1.154	-.238
10	-.568	-.762	-.678	-1.463	-.919	-.362	-.229
11	-.577	-.925	*000.000	-.576	-.284	-.277	-.254
12	-.806	-.639	-.485	-.223	-.270	-.336	-.298
13	-.561	-.580	-.452	-.323	-.342	-.347	-.324
14	-.662	-.572	-.430	-.322	-.320	-.386	-.263
15	-.512	-1.123	.345	.501	.245	.266	-.494
16	-.083	.014	.414	.448	.326	.389	-.302
17	-.116	.057	.317	.393	.303	.315	-.054
18	-.068	.036	.269	.244	.188	.202	-.089
19	-.228	-.184	-.080	-.003	-.146	.213	-.126
20	-.822	-.742	-.553	-.536	-.538	-.442	-.167
21	-1.096	-1.099	-.870	-.428	-.468	-.519	-.351
22	-1.216	-1.149	-.929	-.561	-.407	-.277	-.320
23	-1.002	-.588	-.420	-.378	-.396	-.353	-.548
24	-.486	.035	.061	-.244	-.284	-.300	-.434
25	.651	.988	.579	.856	1.055	1.025	-.308
26	.197	.420	.504	.140	*000.000	.142	.244
27	-.430	-.087	.021	1.032	.252	-.097	.210
28	-.165	-.115	-.026	.699	.749	.572	.271
29	-.151	.158	.350	.543	.426	.370	.288
30	.879	1.069	.944	.996	.958	1.019	.636
31	.268	.552	.612	.693	.609	.671	.521
32	.064	.384	.545	.565	.461	.467	.469
33	-.067	.276	.322	.348	.243	.224	-.054

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.998	1.086	.722	-.289	.484	.254	-1.195
2	.404	.463	.421	-1.115	-.290	-.517	-1.357
3	.139	.179	.191	-1.343	-.594	-.949	-1.159
4	-.297	-.262	-.112	-1.399	-.854	-1.019	-1.179
5	-.609	-.657	-.373	-1.139	-.826	-1.060	-.966
6	*000.000	*000.000	*000.000	.086	.225	-.053	-.099
7	*000.000	*000.000	*000.000	-1.089	-.611	-.492	-.402
8	*000.000	*000.000	*000.000	-1.752	-1.369	-.959	-.433
9	*000.000	*000.000	*000.000	-2.123	-1.679	-.852	-.109
10	-.697	-.879	-.933	-1.408	-.793	-.258	-.119
11	-.675	-.992	*000.000	-.443	-.242	-.248	-.227
12	-.883	-.731	-.676	-.249	-.274	-.333	-.318
13	-.681	-.653	-.478	-.307	-.322	-.327	-.318
14	-.773	-.629	-.413	-.349	-.405	-.287	-.170
15	-.474	-1.027	.193	.466	.232	.361	-.390
16	-.186	-.007	.286	.419	.318	.360	-.140
17	-.113	.021	.223	.407	.319	.379	-.086
18	-.171	.010	.203	.294	.190	.231	-.130
19	-.303	-.236	-.139	-.084	-.125	.204	-.096
20	-.970	-.778	-.603	-.519	-.453	-.475	-.290
21	-1.429	-1.281	-.994	-.431	-.458	-.413	-.238
22	-1.452	-1.265	-.988	-.336	-.410	-.400	-.305
23	-1.045	-.620	-.433	-.357	-.384	-.364	-.454
24	-.483	-.020	.082	-.256	-.293	-.399	-.385
25	.750	1.041	.741	.874	1.001	.850	-.458
26	.248	.533	.601	.103	*000.000	-.022	.253
27	-.359	-.026	.035	1.008	.543	-.052	.298
28	-.190	-.065	0.	.711	.666	.447	.284
29	-.164	.159	.241	.550	.415	.299	.198
30	.937	1.107	1.118	1.001	.978	1.098	.385
31	.178	.582	.623	.683	.584	.720	.384
32	.037	.390	.586	.548	.434	.497	.528
33	-.170	.258	.257	.347	.252	.196	-.103

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.904	1.016	.703	-.366	.330	-.079	-1.387
2	.299	.336	.141	-1.286	-.450	-.909	-1.376
3	.004	.021	-.053	-1.406	-.742	-1.333	-1.417
4	-.454	-.437	-.382	-1.628	-1.031	-1.504	-1.453
5	-.708	-.827	-.619	-1.375	-1.002	-1.302	-.881
6	*000.000	*000.000	*000.000	.087	.248	-.104	-.247
7	*000.000	*000.000	*000.000	-1.103	-.659	-.629	-.546
8	*000.000	*000.000	*000.000	-1.915	-1.559	-1.183	-.650
9	*000.000	*000.000	*000.000	-2.233	-1.854	-.991	-.321
10	-.719	-.900	-.885	-1.195	-.435	-.394	-.233
11	-.733	-1.038	*000.000	-.355	-.247	-.352	-.223
12	-.912	-.754	-.659	-.234	-.261	-.331	-.254
13	-.730	-.695	-.548	-.286	-.288	-.326	-.373
14	-.860	-.720	-.511	-.291	-.289	-.325	-.338
15	-.497	-.967	.160	.479	.238	.313	-.404
16	-.174	-.012	.239	.394	.303	.348	-.176
17	-.157	-.028	.229	.382	.299	.352	-.139
18	-.186	0.	.194	.309	.231	.174	-.144
19	-.383	-.260	-.199	-.025	-.107	.164	-.096
20	-1.087	-.932	-.700	-.520	-.436	-.418	-.410
21	-1.479	-1.321	-1.037	-.411	-.433	-.403	-.370
22	-1.538	-1.332	-.988	-.404	-.325	-.391	-.433
23	-1.172	-.693	-.540	-.265	-.304	-.328	-.381
24	-.535	-.041	-.001	-.341	-.293	-.364	-.354
25	.773	1.091	.760	.849	1.046	.672	-.539
26	.331	.607	.721	.077	*000.000	.009	.201
27	-.322	.010	.046	.973	.589	.283	.274
28	-.206	-.075	.012	.694	.662	.441	.204
29	-.155	.153	.252	.521	.409	.323	.214
30	.909	1.044	1.001	.974	.922	1.000	.180
31	.180	.595	.544	.720	.599	.646	.274
32	.028	.387	.473	.536	.433	.453	.447
33	-.132	.272	.340	.350	.279	.286	-.025

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.897	.940	.558	-.370	.335	-.601	-1.424
2	.175	.145	-.067	-1.547	-.645	-1.532	-1.524
3	-.110	-.223	-.273	-1.656	-1.005	-1.786	-1.262
4	-.541	-.637	-.570	-1.596	-1.102	-1.488	-1.001
5	-.843	-.985	-.916	-1.465	-1.170	-1.403	-.499
6	*000.000	*000.000	*000.000	.102	.184	.014	-.080
7	*000.000	*000.000	*000.000	-1.262	-.888	-.798	-.432
8	*000.000	*000.000	*000.000	-2.016	-1.770	-1.197	-.449
9	*000.000	*000.000	*000.000	-2.256	-2.066	-1.289	-.521
10	-.766	-1.003	-1.019	-1.359	-1.012	-.484	-.274
11	-.843	-1.141	*000.000	-.666	-.462	-.537	-.272
12	-1.073	-.882	-.750	-.458	-.449	-.533	-.287
13	-.943	-.871	-.632	-.296	-.425	-.266	-.187
14	-1.063	-.810	-.598	-.306	-.407	-.325	-.205
15	-.519	-.873	.176	.481	.225	.353	-.378
16	-.282	-.045	.178	.436	.286	.250	-.209
17	-.145	-.032	.216	.385	.303	.300	-.133
18	-.271	-.041	.107	.311	.227	.316	-.111
19	-.396	-.327	-.223	.035	-.046	.119	-.125
20	-1.240	-.986	-.765	-.448	-.378	-.392	-.215
21	-1.654	-1.331	-.995	-.352	-.369	-.207	-.232
22	-1.779	-1.427	-1.031	-.318	-.439	-.410	-.293
23	-1.220	-.730	-.574	-.237	-.238	-.170	-.236
24	-.443	-.066	.002	-.235	-.231	-.176	-.292
25	.728	1.132	.959	.818	.999	.477	-.511
26	.266	.772	.878	.046	*000.000	.104	.262
27	-.323	.092	.189	.998	.655	.474	.169
28	-.257	-.040	.024	.697	.641	.406	.150
29	-.225	.141	.263	.552	.381	.346	.151
30	.863	1.002	.987	.960	.814	.906	-.039
31	.166	.577	.546	.688	.559	.622	.207
32	-.034	.375	.429	.522	.438	.435	.426
33	-.138	.250	.407	.343	.235	.255	-.027

Table 9.- Continued.

(a) $C_{T,s} = 0.90$, $q_s = 20.18$

$\alpha = 65°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.852	.839	.390	-.569	.055	-.842	-1.761
2	.098	.003	-.146	-1.612	-.884	-1.494	-1.360
3	-.228	-.304	-.422	-1.676	-1.060	-1.951	-1.297
4	-.598	-.777	-.711	-1.778	-1.206	-1.697	-.998
5	-.895	-1.106	-.874	-1.540	-1.251	-1.479	-.506
6	*000.000	*000.000	*000.000	.024	.100	-.174	-.148
7	*000.000	*000.000	*000.000	-1.275	-.887	-.713	-.258
8	*000.000	*000.000	*000.000	-2.116	-1.814	-1.153	-.425
9	*000.000	*000.000	*000.000	-2.086	-1.827	-.827	-.210
10	-.960	-1.164	-1.077	-1.486	-1.073	-.458	-.213
11	-.938	-1.223	*000.000	-.494	-.369	-.306	-.151
12	-1.010	-.932	-.677	-.268	-.294	-.399	-.385
13	-.954	-.863	-.550	-.267	-.270	-.402	-.212
14	-1.064	-.818	-.509	-.296	-.299	-.427	-.240
15	-.609	-.871	.186	.428	.189	.280	-.412
16	-.338	-.045	.197	.411	.251	.289	-.188
17	-.315	-.064	.236	.358	.258	.334	-.167
18	-.317	-.084	.157	.249	.136	.124	-.114
19	-.556	-.380	-.171	-.037	-.168	.203	-.121
20	-1.395	-1.074	-.773	-.442	-.458	-.430	-.289
21	-1.785	-1.518	-1.060	-.521	-.431	-.288	-.276
22	-1.915	-1.495	-.960	-.382	-.472	-.253	-.329
23	-1.305	-.835	-.557	-.299	-.296	-.355	-.293
24	-.462	-.114	-.011	-.215	-.249	-.218	-.264
25	.698	1.163	1.014	.799	.965	.095	-.563
26	.324	.786	.928	-.005	*000.000	.106	.245
27	-.337	.123	.253	.967	.649	.402	.132
28	-.285	-.039	.080	.689	.590	.276	.114
29	-.237	.133	.294	.496	.319	.253	.100
30	.802	1.030	1.061	1.004	.836	1.063	-.103
31	.211	.590	.626	.694	.530	.645	.120
32	-.085	.364	.529	.491	.408	.448	.324
33	-.157	.223	.328	.324	.209	.307	-.033

$\alpha = 70°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.815	.874	.380	-.607	.101	-1.405	-1.482
2	.017	-.032	-.352	-1.795	-1.033	-1.508	-.547
3	-.272	-.337	-.398	-1.512	-1.088	-1.920	-1.012
4	-.722	-.848	-.787	-1.874	-1.409	-1.858	-.982
5	-.967	-1.166	-1.028	-1.526	-1.297	-1.500	-.784
6	*000.000	*000.000	*000.000	-.071	.035	-.368	-.184
7	*000.000	*000.000	*000.000	-1.377	-1.065	-.761	-.209
8	*000.000	*000.000	*000.000	-1.866	-1.727	-1.163	-.298
9	*000.000	*000.000	*000.000	-2.005	-2.104	-1.327	-.372
10	-1.024	-1.207	-1.214	-1.417	-1.208	-.473	-.181
11	-1.007	-1.194	*000.000	-.411	-.319	-.294	-.255
12	-1.026	-.958	-.683	-.301	-.309	-.607	-.431
13	-1.021	-.889	-.573	-.252	-.317	-.372	-.178
14	-1.214	-.917	-.594	-.276	-.484	-.501	-.284
15	-.596	-.808	.144	.405	.224	.369	-.201
16	-.397	-.068	.207	.401	.211	.284	-.213
17	-.390	-.081	.162	.350	.247	.310	-.186
18	-.348	-.054	.159	.356	.224	-.014	-.242
19	-.625	-.389	-.178	.111	-.063	.133	-.214
20	-1.470	-1.123	-.791	-.521	-.597	-.289	-.233
21	-1.827	-1.505	-1.034	-.390	-.413	-.254	-.233
22	-1.997	-1.584	-1.090	-.551	-.640	-.489	-.287
23	-1.186	-.747	-.495	-.313	-.280	-.451	-.330
24	-.358	-.029	-.048	-.222	-.173	-.251	-.172
25	.693	1.144	.772	.750	.895	-.137	-.865
26	.257	.796	.884	-.002	*000.000	.061	.149
27	-.481	.150	.272	.956	.632	.202	.060
28	-.323	-.047	.046	.629	.569	.301	.083
29	-.238	.134	.253	.479	.285	.211	.086
30	.745	1.047	.988	.930	.772	.734	-.059
31	.160	.582	.592	.647	.509	.412	.058
32	-.050	.406	.498	.489	.388	.218	.086
33	-.101	.264	.321	.270	.173	.143	-.062

$\alpha = 75°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.597	.746	.267	-.531	-.022	-1.293	-1.089
2	-.133	-.090	-.405	-1.641	-1.124	-1.872	-1.169
3	-.434	-.466	-.538	-1.707	-1.220	-1.296	-.231
4	-.789	-.864	-.843	-1.828	-1.470	-1.332	-.422
5	-1.097	-1.183	-.896	-1.413	-1.134	-.970	-.332
6	*000.000	*000.000	*000.000	.086	.204	-.192	-.116
7	*000.000	*000.000	*000.000	-1.009	-.795	-.776	-.315
8	*000.000	*000.000	*000.000	-1.952	-1.777	-.941	-.223
9	*000.000	*000.000	*000.000	-1.938	-1.714	-.485	-.072
10	-1.141	-1.171	-1.040	-.885	-.765	-.455	-.081
11	-1.088	-1.256	*000.000	-.376	-.352	-.350	-.196
12	-1.033	-1.009	-.738	-.272	-.318	-.250	-.166
13	-1.086	-.941	-.621	-.246	-.291	-.139	-.143
14	-1.172	-.882	-.577	-.247	-.289	-.232	-.184
15	-.581	-.838	.127	.427	.250	.291	-.137
16	-.481	-.048	.190	.389	.267	.350	-.209
17	-.428	-.078	.187	.298	.243	.218	-.204
18	-.364	-.051	.138	.332	.199	.082	-.168
19	-.523	-.381	-.130	.078	-.047	.213	-.093
20	-1.443	-1.153	-.783	-.401	-.496	-.230	-.241
21	-1.906	-1.512	-.995	-.516	-.559	-.406	-.107
22	-1.851	-1.452	-1.069	-.309	-.366	-.262	-.173
23	-1.176	-.700	-.494	-.184	-.189	-.359	-.263
24	-.402	-.047	-.072	-.211	-.189	-.290	-.245
25	.564	1.125	.661	.735	.862	-.187	-.699
26	.181	.835	.814	.005	*000.000	.094	.078
27	-.478	.108	.254	.928	.668	.348	-.022
28	-.329	-.048	.052	.649	.534	.171	.059
29	-.252	.104	.262	.504	.324	.241	.153
30	.747	1.047	.968	.925	.800	.730	-.054
31	.113	.590	.623	.622	.540	.493	.114
32	-.082	.364	.532	.437	.356	.283	.121
33	-.102	.290	.332	.310	.237	.158	-.066

$\alpha = 80°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.562	.728	.268	-.542	-.067	-1.061	-.779
2	-.283	-.144	-.271	-1.546	-1.181	-1.316	-.118
3	-.492	-.429	-.433	-1.442	-1.339	-1.283	-.327
4	-.894	-.880	-.779	-1.636	-1.373	-1.539	-.293
5	-1.225	-1.281	-.938	-1.529	-1.341	-.496	-.134
6	*000.000	*000.000	*000.000	-.007	.034	-.019	.040
7	*000.000	*000.000	*000.000	-1.075	-.863	-.513	.007
8	*000.000	*000.000	*000.000	-1.896	-1.796	-.460	-.198
9	*000.000	*000.000	*000.000	-1.587	-1.418	-.656	.026
10	-1.216	-1.204	-.987	-.776	-.660	-.239	-.123
11	-1.148	-1.263	*000.000	-.343	-.305	-.243	-.006
12	-.942	-.944	-.661	-.292	-.363	-.226	.104
13	-1.006	-.893	-.497	-.196	-.269	-.142	-.167
14	-1.026	-.767	-.366	-.231	-.306	-.061	-.059
15	-.523	-.837	.143	.333	.162	.364	-.051
16	-.387	-.040	.183	.365	.246	.409	-.041
17	-.427	-.015	.203	.355	.244	.255	-.090
18	-.420	-.082	.094	.277	.164	.328	.106
19	-.443	-.360	-.166	.011	-.167	.245	-.068
20	-1.316	-1.052	-.685	-.401	-.265	-.212	-.050
21	-1.749	-1.365	-.882	-.308	-.291	-.202	-.250
22	-1.756	-1.385	-.903	-.302	-.247	-.136	-.163
23	-.995	-.618	-.393	-.212	-.164	-.133	.077
24	-.400	-.029	-.044	-.206	-.114	-.013	.084
25	.608	1.179	.908	.666	.835	-.292	-.384
26	.228	.861	.773	.041	*000.000	.107	.306
27	-.497	.131	.238	.862	.665	.349	.066
28	-.316	-.046	.043	.632	.514	.195	.241
29	-.243	.135	.239	.464	.232	.162	.280
30	.720	.969	.944	.874	.704	.803	.214
31	-.027	.637	.628	.490	.337	.446	.197
32	-.077	.403	.504	.414	.270	.341	.267
33	-.172	.223	.265	.273	.112	.151	.134

Table 9.- Continued.

(b) $C_{T,S} = 0.80$, $q_S = 20.01$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.040	.915	.199	.673	1.098	1.020	.786
2	.944	1.160	.861	.697	1.019	1.053	.607
3	.851	1.055	.953	.663	.898	.846	.438
4	.537	.778	.736	.496	.543	.522	.247
5	.116	.296	.443	.314	.214	.162	.025
6	*000.000	*000.000	*000.000	-.040	.017	-.055	-.065
7	*000.000	*000.000	*000.000	.252	.408	.447	.268
8	*000.000	*000.000	*000.000	-.633	-.708	-.595	-.418
9	*000.000	*000.000	*000.000	-1.574	-1.608	-1.392	-.780
10	-.254	-.257	-.274	-1.441	-1.309	-1.149	-.713
11	-.462	-.600	*000.000	-1.098	-1.051	-.755	-.493
12	-.662	-.523	-.498	-.703	-.671	-.527	-.255
13	-.262	-.474	-.367	-.441	-.480	-.341	-.199
14	-.237	-.390	-.315	-.415	-.437	-.339	-.179
15	-.210	-.624	.338	.429	.380	.343	-.084
16	.083	.241	.255	.299	.259	.180	.049
17	.094	.219	.273	.384	.256	.198	.040
18	.167	.135	.213	.270	.190	.103	-.016
19	.019	-.039	.025	.003	-.075	.123	-.057
20	-.303	-.344	-.342	-.510	-.539	-.446	-.248
21	-.544	-.679	-.598	-.734	-.814	-.668	-.326
22	-.614	-.650	-.632	-.734	-.762	-.667	-.400
23	-.289	-.153	-.156	-.189	-.222	-.291	-.329
24	-.123	.059	.028	.144	.117	-.008	-.109
25	.048	-.397	-1.169	.391	.488	.366	.290
26	-.690	-1.332	-1.612	-.132	*000.000	.043	.255
27	-.739	-.967	-.971	-.062	.043	-.027	-.085
28	-.294	-.392	-.164	.458	.003	.024	.060
29	-.045	.103	.239	.422	.403	.289	.296
30	.794	.870	.432	.836	.733	.528	.424
31	.254	.553	.713	.708	.539	.485	.342
32	.141	.316	.424	.515	.551	.490	.371
33	.071	.285	.321	.430	.443	.327	.162

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.124	1.014	.449	.559	1.102	1.190	.675
2	.962	1.104	.883	.484	.911	1.027	.503
3	.818	.962	.887	.365	.687	.812	.269
4	.430	.630	.774	.234	.430	.541	.044
5	-.017	.129	.303	.058	.067	.100	-.081
6	*000.000	*000.000	*000.000	.152	.050	.089	.037
7	*000.000	*000.000	*000.000	-.110	.058	.167	.154
8	*000.000	*000.000	*000.000	-.956	-.896	-.640	-.621
9	*000.000	*000.000	*000.000	-1.784	-1.827	-1.541	-1.136
10	-.330	-.438	-.395	-1.618	-1.520	-1.232	-.955
11	-.462	-.705	*000.000	-1.135	-1.166	-.819	-.593
12	-.646	-.551	-.495	-.685	-.706	-.438	-.367
13	-.228	-.472	-.349	-.450	-.524	-.329	-.251
14	-.285	-.457	-.315	-.403	-.472	-.353	-.264
15	-.290	-.649	.308	.411	.273	.409	-.249
16	.161	.139	.343	.363	.318	.376	-.026
17	.236	.176	.316	.370	.326	.377	.030
18	.155	.141	.234	.243	.241	.209	-.014
19	.042	-.035	.076	.002	-.095	.225	-.057
20	-.396	-.438	-.333	-.542	-.632	-.485	-.318
21	-.649	-.816	-.614	-.774	-.847	-.628	-.500
22	-.673	-.750	-.633	-.649	-.772	-.666	-.461
23	-.428	-.200	-.123	-.173	-.275	-.345	-.431
24	-.166	.054	.143	.135	.144	.123	-.215
25	.337	.022	-.643	.562	.756	.675	.578
26	-.343	-.912	-.838	-.097	*000.000	.124	.171
27	-.656	-.765	-.697	.294	.004	.003	.050
28	-.253	-.337	-.074	.632	.323	.060	.089
29	-.017	.138	.248	.462	.492	.464	.327
30	.960	.981	.546	.981	1.065	.999	.520
31	.456	.557	.495	.705	.715	.748	.664
32	.210	.368	.417	.588	.591	.575	.435
33	.081	.253	.379	.441	.407	.396	.084

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.171	1.191	.736	.435	1.092	1.120	.625
2	.856	.992	.787	-.003	.656	.737	.331
3	.610	.820	.783	-.176	.401	.589	.185
4	.219	.400	.426	-.301	.053	.095	-.164
5	-.194	-.050	.050	-.303	-.187	-.154	-.222
6	*000.000	*000.000	*000.000	.150	.084	-.001	-.005
7	*000.000	*000.000	*000.000	-.540	-.364	-.248	-.160
8	*000.000	*000.000	*000.000	-1.332	-1.296	-1.179	-.896
9	*000.000	*000.000	*000.000	-2.132	-2.202	-1.969	-1.433
10	-.454	-.610	-.507	-1.772	-1.732	-1.555	-1.129
11	-.506	-.787	*000.000	-1.169	-1.248	-.971	-.623
12	-.837	-.579	-.577	-.645	-.741	-.590	-.364
13	-.288	-.505	-.444	-.453	-.516	-.472	-.249
14	-.341	-.405	-.380	-.399	-.483	-.406	-.256
15	-.383	-.652	.394	.451	.277	.319	-.374
16	.039	.261	.391	.441	.362	.325	-.217
17	.177	.164	.304	.367	.344	.343	-.089
18	.122	.127	.225	.292	.232	.174	-.083
19	.014	-.082	.017	-.010	-.101	.253	-.143
20	-.516	-.481	-.362	-.563	-.606	-.587	-.392
21	-.818	-.904	-.752	-.702	-.831	-.763	-.493
22	-.764	-.792	-.701	-.576	-.664	-.744	-.515
23	-.542	-.263	-.234	-.149	-.222	-.409	-.435
24	-.338	.074	.114	.156	.170	.034	-.139
25	.457	.330	-.097	.691	.857	.676	.461
26	-.136	-.455	-.486	-.016	*000.000	.073	.160
27	-.539	-.485	-.476	.673	.051	-.052	-.134
28	-.250	-.236	-.039	.628	.893	.372	.362
29	-.023	.177	.317	.476	.491	.439	.299
30	1.035	1.083	.607	.968	1.059	1.011	.790
31	.370	.531	.499	.666	.704	.677	.579
32	.161	.408	.429	.611	.615	.502	.552
33	.051	.298	.374	.482	.437	.354	-.005

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.140	1.219	.582	.071	.857	1.024	.571
2	.717	.823	.512	-.619	.255	.519	.159
3	.432	.538	.371	-.642	-.030	.179	-.042
4	.007	.105	.136	-.717	-.327	-.162	-.467
5	-.300	-.328	-.191	-.717	-.578	-.490	-.593
6	*000.000	*000.000	*000.000	.090	.031	-.027	-.074
7	*000.000	*000.000	*000.000	-.873	-.683	-.570	-.469
8	*000.000	*000.000	*000.000	-1.725	-1.677	-1.379	-1.081
9	*000.000	*000.000	*000.000	-2.372	-2.490	-2.134	-1.515
10	-.477	-.654	-.703	-1.886	-1.909	-1.640	-1.108
11	-.571	-.841	*000.000	-1.096	-1.291	-1.010	-.686
12	-.828	-.588	-.639	-.625	-.741	-.547	-.313
13	-.367	-.549	-.526	-.475	-.531	-.499	-.315
14	-.424	-.517	-.490	-.423	-.484	-.402	-.309
15	-.316	-.713	.385	.492	.268	.310	-.368
16	.137	.065	.292	.414	.331	.359	-.237
17	.161	.121	.241	.417	.303	.384	-.116
18	.182	.102	.232	.306	.246	.256	-.097
19	-.023	-.121	-.046	-.037	-.129	.214	-.130
20	-.547	-.562	-.511	-.536	-.608	-.470	-.336
21	-.827	-.878	-.767	-.566	-.747	-.635	-.438
22	-.928	-.948	-.810	-.536	-.624	-.724	-.496
23	-.713	-.366	-.233	-.165	-.191	-.382	-.478
24	-.438	.112	.052	.085	.130	.019	-.074
25	.750	.699	.292	.698	.954	.894	.421
26	.103	-.031	.072	.148	*000.000	.048	.255
27	-.382	-.243	-.143	.852	.007	-.081	-.153
28	-.228	-.105	.018	.735	.760	.709	.508
29	.005	.207	.360	.580	.496	.453	.384
30	1.087	1.054	.751	.995	1.015	1.066	.763
31	.400	.644	.584	.756	.764	.755	.641
32	.181	.444	.449	.607	.578	.489	.557
33	.046	.330	.332	.479	.408	.378	.053

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.152	1.203	.752	-.240	.715	1.034	.072
2	.599	.651	.491	-.949	-.005	.358	-.152
3	.375	.374	.225	-.952	-.458	-.045	-.544
4	-.092	-.141	-.061	-1.277	-.769	-.436	-.797
5	-.444	-.536	-.363	-1.027	-.818	-.668	-.716
6	*000.000	*000.000	*000.000	.105	.051	-.027	-.104
7	*000.000	*000.000	*000.000	-1.172	-.864	-.645	-.593
8	*000.000	*000.000	*000.000	-2.022	-1.924	-1.510	-1.167
9	*000.000	*000.000	*000.000	-2.797	-2.963	-2.545	-1.863
10	-.606	-.814	-.952	-2.006	-2.131	-1.747	-1.117
11	-.598	-.930	*000.000	-1.043	-1.339	-.988	-.693
12	-.886	-.681	-.659	-.604	-.756	-.547	-.424
13	-.494	-.594	-.535	-.474	-.567	-.493	-.342
14	-.553	-.581	-.509	-.469	-.489	-.469	-.316
15	-.369	-.780	.360	.552	.289	.360	-.555
16	.115	.089	.356	.422	.295	.288	-.230
17	.143	.086	.313	.403	.310	.360	-.153
18	.097	.074	.255	.307	.216	.250	-.073
19	-.102	-.166	-.028	-.016	-.092	.216	-.096
20	-.694	-.654	-.592	-.542	-.598	-.554	-.253
21	-1.053	-.996	-.815	-.555	-.675	-.522	-.303
22	-1.130	-1.029	-.830	-.491	-.558	-.457	-.342
23	-.888	-.449	-.303	-.177	-.248	-.274	-.410
24	-.468	.069	.036	-.005	-.148	-.134	-.145
25	.898	.941	.632	.733	1.049	1.023	.219
26	.300	.478	.460	.124	*000.000	-.126	.087
27	-.254	-.049	.100	.904	.402	-.107	.060
28	-.145	-.031	.057	.729	.725	.714	.429
29	.004	.238	.329	.548	.446	.409	.289
30	1.088	1.066	.976	.981	.977	1.065	.684
31	.417	.630	.621	.759	.654	.733	.503
32	.175	.503	.541	.638	.572	.547	.592
33	.007	.376	.422	.457	.310	.298	-.135

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.097	1.038	.831	-.344	.542	.931	-.213
2	.406	.324	.368	-1.077	-.192	.167	-.419
3	.099	-.012	.237	-1.304	-.565	-.060	-.519
4	-.265	-.467	-.256	-1.358	-.762	-.655	-.888
5	-.631	-.876	-.534	-1.288	-.995	-.726	-.729
6	*000.000	*000.000	*000.000	.114	.205	.042	-.043
7	*000.000	*000.000	*000.000	-1.214	-.841	-.550	-.387
8	*000.000	*000.000	*000.000	-2.168	-1.958	-1.415	-.851
9	*000.000	*000.000	*000.000	-2.769	-2.679	-1.962	-1.017
10	-.686	-1.010	-.814	-2.019	-1.984	-1.370	-.560
11	-.631	-1.048	*000.000	-.972	-.938	-.501	-.283
12	-.916	-.735	-.550	-.477	-.366	-.435	-.325
13	-.572	-.685	-.462	-.358	-.386	-.374	-.338
14	-.642	-.624	-.477	-.368	-.384	-.360	-.325
15	-.220	-.755	.273	.486	.260	.278	-.480
16	.009	.022	.405	.475	.357	.405	-.252
17	.065	.041	.240	.421	.273	.306	-.191
18	.019	.032	.358	.336	.270	.227	-.095
19	-.223	-.208	-.028	-.008	-.239	-.213	-.123
20	-.909	-.767	-.577	-.439	-.499	-.436	-.376
21	-1.267	-1.137	-.830	-.454	-.528	-.387	-.222
22	-1.429	-1.168	-.835	-.491	-.505	-.382	-.270
23	-1.066	-.573	-.362	-.251	-.273	-.320	-.198
24	-.457	.022	.175	-.057	-.026	-.176	-.309
25	.993	1.091	.715	.786	1.054	1.025	.074
26	.437	.648	.861	.126	*000.000	-.124	.088
27	-.153	.072	.303	.990	.780	-.180	.066
28	-.112	.024	.231	.745	.767	.711	.307
29	-.046	.235	.404	.588	.510	.425	.315
30	1.034	1.037	1.048	1.010	1.025	1.037	.686
31	.427	.643	.661	.788	.695	.731	.529
32	.220	.439	.623	.596	.496	.480	.468
33	-.022	.313	.447	.393	.255	.239	-.102

Table 9.- Continued.

(b) $C_{T,s} = 0.80$, $q_s = 20.01$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.950	.892	.352	-.505	.418	.766	-.555
2	.199	.037	-.045	-1.470	-.467	-.015	-.748
3	-.121	-.301	-.354	-1.644	-.830	-.329	-.827
4	-.578	-.795	-.584	-1.750	-1.035	-.731	-.887
5	-.837	-1.064	-.872	-1.524	-1.123	-.829	-.803
6	*000.000	*000.000	*000.000	.149	.377	.043	-.048
7	*000.000	*000.000	*000.000	-1.390	-.949	-.530	-.474
8	*000.000	*000.000	*000.000	-2.408	-2.048	-1.269	-.672
9	*000.000	*000.000	*000.000	-2.984	-2.839	-2.023	-.822
10	-.766	-1.075	-1.096	-1.973	-1.791	-1.032	-.337
11	-.759	-1.145	*000.000	-.850	-.520	-.387	-.309
12	-1.040	-.793	-.779	-.413	-.340	-.308	-.253
13	-.668	-.723	-.625	-.388	-.399	-.371	-.363
14	-.804	-.683	-.580	-.372	-.497	-.350	-.390
15	-.289	-.673	.290	.494	.272	.303	-.462
16	-.115	.003	.313	.449	.353	.303	-.249
17	-.130	.030	.176	.423	.361	.385	-.127
18	-.130	-.002	.168	.333	.215	.244	-.177
19	-.318	-.272	-.056	.011	-.129	.339	-.108
20	-1.089	-.856	-.719	-.519	-.480	-.439	-.337
21	-1.555	-1.267	-1.092	-.564	-.551	-.354	-.321
22	-1.727	-1.267	-1.027	-.521	-.437	-.396	-.359
23	-1.326	-.628	-.486	-.274	-.327	-.304	-.300
24	-.503	-.007	.046	-.165	-.315	-.307	-.299
25	1.061	1.168	.735	.777	1.112	1.133	.009
26	.495	.863	.878	.246	*000.000	-.076	.066
27	-.100	.204	.405	.982	.781	.218	.163
28	-.105	.085	.204	.742	.796	.612	.288
29	-.084	.249	.363	.610	.518	.411	.298
30	.936	1.005	.999	.955	.970	1.043	.396
31	.379	.634	.574	.756	.673	.707	.419
32	.142	.468	.582	.595	.525	.482	.357
33	-.073	.308	.359	.406	.277	.228	-.095

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.828	.677	.260	-.779	.100	.496	-.796
2	-.010	-.354	-.625	-2.083	-.898	-.550	-.859
3	-.334	-.651	-.746	-2.295	-1.338	-.850	-.935
4	-.690	-1.004	-1.021	-2.176	-1.432	-1.068	-.822
5	-1.045	-1.395	-1.191	-1.875	-1.432	-1.154	-.722
6	*000.000	*000.000	*000.000	.083	.232	-.078	-.084
7	*000.000	*000.000	*000.000	-1.631	-1.187	-.752	-.488
8	*000.000	*000.000	*000.000	-2.682	-2.340	-1.517	-.653
9	*000.000	*000.000	*000.000	-3.212	-2.933	-1.890	-.643
10	-.835	-1.150	-1.236	-1.943	-1.804	-.995	-.299
11	-.846	-1.200	*000.000	-.938	-.893	-.553	-.314
12	-1.117	-.848	-.788	-.449	-.400	-.383	-.312
13	-.845	-.806	-.609	-.385	-.443	-.531	-.295
14	-1.047	-.781	-.581	-.405	-.490	-.485	-.351
15	-.333	-.645	.284	.487	.301	.217	-.588
16	-.257	.070	.315	.433	.364	.316	-.302
17	-.291	.032	.329	.395	.347	.329	-.120
18	-.250	.034	.237	.326	.258	.223	-.079
19	-.507	-.317	-.157	-.021	-.200	.178	-.242
20	-1.324	-.945	-.690	-.523	-.484	-.526	-.414
21	-1.810	-1.361	-1.028	-.624	-.564	-.402	-.382
22	-2.071	-1.448	-1.174	-.474	-.517	-.494	-.420
23	-1.528	-.763	-.602	-.387	-.363	-.416	-.290
24	-.543	-.025	.046	-.281	-.300	-.484	-.339
25	1.142	1.270	.992	.667	1.098	1.023	-.257
26	.632	1.034	1.037	.309	*000.000	-.123	.098
27	-.059	.363	.593	1.046	.820	.120	.157
28	-.110	.140	.253	.772	.749	.456	.273
29	-.100	.271	.421	.559	.471	.284	.254
30	.942	1.063	1.039	1.033	1.020	1.038	.292
31	.361	.635	.692	.712	.636	.624	.312
32	.113	.469	.548	.563	.502	.397	.420
33	-.059	.346	.481	.406	.268	.125	-.070

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.761	.469	-.020	-1.027	-.061	-.013	-1.082
2	-.185	-.544	-.837	-2.188	-1.049	-.702	-1.026
3	-.572	-.998	-1.157	-2.599	-1.609	-1.099	-1.070
4	-.926	-1.266	-1.191	-2.279	-1.527	-1.077	-.791
5	-1.134	-1.535	-1.295	-2.074	-1.538	-1.409	-.682
6	*000.000	*000.000	*000.000	.063	.196	-.122	-.046
7	*000.000	*000.000	*000.000	-1.880	-1.381	-.923	-.650
8	*000.000	*000.000	*000.000	-2.599	-2.001	-1.396	-.685
9	*000.000	*000.000	*000.000	-2.896	-2.488	-1.436	-.413
10	-1.017	-1.327	-1.353	-1.768	-1.245	-.455	-.284
11	-.891	-1.299	*000.000	-.666	-.582	-.588	-.312
12	-1.194	-.944	-.798	-.454	-.442	-.592	-.266
13	-.971	-.863	-.672	-.296	-.398	-.344	-.321
14	-1.160	-.838	-.583	-.420	-.570	-.407	-.361
15	-.427	-.668	.319	.524	.262	.350	-.706
16	-.405	.019	.294	.452	.295	.279	-.241
17	-.428	-.003	.314	.417	.354	.339	-.213
18	-.370	-.054	.210	.327	.179	.108	-.234
19	-.547	-.356	-.169	.016	-.121	.242	-.210
20	-1.480	-1.059	-.772	-.612	-.680	-.520	-.372
21	-2.012	-1.448	-1.082	-.541	-.651	-.349	-.420
22	-2.236	-1.589	-1.223	-.553	-.532	-.436	-.353
23	-1.558	-.807	-.618	-.344	-.338	-.317	-.282
24	-.579	-.057	-.003	-.382	-.321	-.301	-.327
25	1.152	1.189	.820	.640	1.036	.759	-.467
26	.679	1.026	1.026	.363	*000.000	-.084	.032
27	.009	.484	.658	1.084	.820	.460	.176
28	-.077	.191	.298	.813	.763	.455	.185
29	-.112	.267	.425	.642	.468	.284	.180
30	.924	1.088	1.075	1.069	1.005	.976	.228
31	.335	.694	.725	.806	.669	.720	.079
32	.116	.435	.563	.574	.464	.443	.362
33	-.051	.302	.403	.428	.264	.156	-.062

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.618	.222	-.293	-1.233	-.276	-.772	-1.394
2	-.476	-.960	-1.295	-2.723	-1.462	-1.410	-1.299
3	-.784	-1.342	-1.495	-2.686	-1.811	-1.618	-.983
4	-1.214	-1.625	-1.649	-2.505	-1.705	-1.494	-1.006
5	-1.439	-1.773	-1.587	-2.053	-1.612	-1.358	-.513
6	*000.000	*000.000	*000.000	.114	.282	.040	-.029
7	*000.000	*000.000	*000.000	-1.810	-1.326	-.791	-.396
8	*000.000	*000.000	*000.000	-2.752	-2.447	-1.353	-.513
9	*000.000	*000.000	*000.000	-2.513	-1.824	-.841	-.215
10	-1.126	-1.421	-1.470	-1.478	-.643	-.383	-.187
11	-1.030	-1.373	*000.000	-.510	-.342	-.233	-.312
12	-1.179	-.991	-.787	-.315	-.301	-.269	-.395
13	-1.278	-1.036	-.738	-.325	-.331	-.217	-.364
14	-1.322	-.861	-.619	-.321	-.324	-.394	-.324
15	-.488	-.645	.270	.488	.255	.362	-.367
16	-.521	-.029	.282	.471	.336	.343	-.248
17	-.533	.010	.285	.457	.373	.412	-.219
18	-.522	-.054	.184	.350	.248	.243	-.129
19	-.824	-.429	-.196	-.037	-.067	.270	-.362
20	-1.653	-1.105	-.791	-.435	-.455	-.391	-.341
21	-2.295	-1.599	-1.194	-.562	-.473	-.374	-.432
22	-2.508	-1.688	-1.229	-.637	-.454	-.420	-.600
23	-1.604	-.852	-.664	-.304	-.321	-.444	-.519
24	-.574	-.074	-.040	-.335	-.238	-.261	-.380
25	1.125	1.216	.748	.540	1.081	.306	-.906
26	.721	1.150	1.135	.376	*000.000	.009	-.021
27	.009	.577	.717	1.079	.850	.476	.112
28	-.103	.233	.321	.821	.771	.503	.147
29	-.165	.284	.424	.616	.475	.317	.060
30	.813	1.075	1.080	1.010	.988	.984	-.053
31	.277	.686	.709	.763	.636	.769	.168
32	.059	.470	.573	.583	.475	.446	.378
33	-.064	.338	.415	.369	.281	.237	-.182

Table 9.- Continued.

(b) $C_{T,S} = 0.80$, $q_s = 20.01$

$\alpha = 55°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.436	.017	-.637	-1.280	-.388	-.981	-.476
2	-.454	-1.174	-1.589	-2.525	-1.525	-1.886	-1.256
3	-.917	-1.491	-1.567	-2.463	-1.785	-1.612	-.965
4	-1.360	-1.967	-1.892	-2.564	-1.828	-1.534	-.273
5	-1.590	-2.004	-1.792	-2.240	-1.912	-1.505	-.654
6	*000.000	*000.000	*000.000	.087	.161	-.150	-.069
7	*000.000	*000.000	*000.000	-1.590	-1.235	-.780	-.201
8	*000.000	*000.000	*000.000	-2.852	-2.366	-.938	-.211
9	*000.000	*000.000	*000.000	-3.068	-2.831	-1.227	-.218
10	-1.290	-1.528	-1.570	-1.541	-1.423	-.419	-.006
11	-1.040	-1.346	*000.000	-.307	-.283	-.319	-.227
12	-1.206	-1.026	-.785	-.356	-.307	-.230	-.124
13	-1.416	-.996	-.640	-.332	-.333	-.344	-.165
14	-1.605	-1.031	-.738	-.418	-.436	-.269	-.254
15	-.597	-.559	.272	.534	.231	.394	-.044
16	-.496	.027	.277	.477	.352	.399	-.090
17	-.670	-.049	.270	.408	.288	.300	-.072
18	-.642	-.084	.180	.319	.240	.236	-.218
19	-.878	-.421	-.140	.076	-.019	.220	-.127
20	-1.497	-1.227	-.869	-.506	-.370	-.257	-.288
21	-2.500	-1.668	-1.201	-.670	-.459	-.448	-.306
22	-2.595	-1.693	-1.266	-.426	-.334	-.343	-.268
23	-1.643	-.806	-.612	-.264	-.279	-.330	-.209
24	-.542	-.096	-.011	-.294	-.351	-.350	-.354
25	1.071	1.157	.579	.371	1.010	-.292	-.852
26	.707	1.178	1.112	.475	*000.000	-.049	.169
27	-.011	.647	.788	1.048	.857	.490	.120
28	-.113	.284	.385	.835	.790	.346	.155
29	-.187	.296	.342	.621	.445	.243	.219
30	.717	1.087	1.060	1.072	1.025	.995	-.161
31	.202	.697	.725	.721	.583	.644	.055
32	-.023	.492	.576	.577	.440	.392	.463
33	-.094	.285	.383	.362	.245	.225	.017

$\alpha = 60°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.314	-.237	-1.017	-1.477	-.925	-1.272	-.558
2	-.460	-1.444	-1.881	-2.807	-1.809	-1.106	-.165
3	-1.188	-1.881	-2.119	-3.154	-2.403	-1.205	-.429
4	-1.851	-2.078	-2.141	-2.923	-2.360	-1.168	-.451
5	-1.734	-2.166	-2.013	-2.429	-2.024	-.536	-.448
6	*000.000	*000.000	*000.000	.026	.145	-.049	.038
7	*000.000	*000.000	*000.000	-1.729	-1.223	-.340	-.087
8	*000.000	*000.000	*000.000	-2.873	-2.394	-.667	-.132
9	*000.000	*000.000	*000.000	-3.200	-2.708	-.554	-.119
10	-1.453	-1.693	-1.610	-1.753	-1.372	-.217	-.042
11	-1.289	-1.554	*000.000	-.665	-.505	-.185	-.170
12	-1.281	-1.147	-.824	-.365	-.238	-.093	-.044
13	-1.376	-1.049	-.692	-.368	-.256	-.087	-.073
14	-1.667	-1.083	-.697	-.421	-.325	-.206	-.188
15	-.700	-.530	.301	.446	.235	.497	-.228
16	-.446	-.019	.295	.429	.324	.395	-.112
17	-.866	-.070	.261	.430	.330	.364	-.090
18	-.800	-.134	.184	.300	.217	.220	-.038
19	-.968	-.494	-.180	-.155	-.037	.232	-.063
20	-1.937	-1.294	-.855	-.672	-.465	-.367	-.290
21	-2.430	-1.701	-1.166	-.498	-.285	-.146	-.058
22	-2.633	-1.769	-1.313	-.551	-.304	-.174	-.033
23	-1.452	-.824	-.638	-.291	-.255	-.250	-.172
24	-.554	-.110	.004	-.266	-.239	-.217	-.194
25	1.044	1.126	.376	.468	.955	-.624	-.398
26	.744	1.193	1.105	.333	*000.000	.016	.054
27	-.010	.669	.868	1.134	.900	.514	.134
28	-.140	.286	.420	.854	.663	.251	.142
29	-.224	.245	.388	.570	.359	.250	.232
30	.648	1.089	1.114	1.104	.946	.764	-.098
31	.166	.692	.702	.745	.540	.665	.195
32	.024	.461	.601	.591	.421	.442	.273
33	-.079	.289	.431	.369	.219	.265	.116

$\alpha = 65°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.070	-.429	-1.381	-1.692	-1.298	-1.071	-.423
2	-.980	-1.568	-1.968	-2.863	-2.198	-1.317	-.532
3	-1.534	-2.039	-2.234	-3.168	-2.759	-.874	-.590
4	-1.871	-2.315	-2.311	-3.034	-2.450	-.511	-.329
5	-1.912	-2.244	-1.905	-2.446	-2.054	-.590	-.533
6	*000.000	*000.000	*000.000	.011	.027	-.122	.023
7	*000.000	*000.000	*000.000	-1.706	-1.103	-.404	-.226
8	*000.000	*000.000	*000.000	-2.742	-2.159	-.578	-.245
9	*000.000	*000.000	*000.000	-3.267	-2.446	-.394	-.212
10	-1.517	-1.673	-1.544	-1.622	-1.055	-.134	-.079
11	-1.456	-1.589	*000.000	-.681	-.444	-.156	-.109
12	-1.318	-1.219	-.888	-.370	-.249	-.222	-.184
13	-1.450	-1.056	-.687	-.337	-.202	-.170	-.134
14	-1.577	-1.031	-.662	-.416	-.264	-.314	-.258
15	-.716	-.499	.272	.476	.198	.361	-.139
16	-.906	-.008	.276	.352	.225	.269	-.125
17	-.852	-.093	.266	.381	.251	.264	-.211
18	-.833	-.138	.180	.269	.212	.176	-.114
19	-1.004	-.490	-.151	-.099	-.035	.219	-.161
20	-1.906	-1.167	-.748	-.555	-.339	-.260	-.204
21	-2.436	-1.663	-1.189	-.661	-.313	-.263	-.170
22	-2.495	-1.623	-1.164	-.486	-.435	-.393	-.342
23	-1.375	-.859	-.711	-.334	-.302	-.283	-.246
24	-.600	-.131	-.055	-.278	-.239	-.262	-.298
25	.923	.994	.274	.548	.736	-.683	-.545
26	.634	1.193	1.093	.234	*000.000	-.067	.050
27	-.073	.668	.856	1.044	.828	.380	.089
28	-.213	.286	.413	.812	.533	.184	.090
29	-.300	.254	.406	.557	.342	.215	.185
30	.604	1.084	1.123	1.007	.910	.792	-.009
31	.142	.666	.695	.597	.452	.476	.058
32	-.021	.428	.556	.482	.364	.344	.290
33	-.048	.294	.403	.299	.176	.186	.063

$\alpha = 70°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-.026	-.534	-1.462	-1.842	-1.632	-1.029	-.566
2	-1.436	-1.931	-2.461	-3.269	-2.603	-.497	-.379
3	-1.697	-2.250	-2.475	-3.341	-2.531	-.486	-.630
4	-2.037	-2.431	-2.417	-3.152	-2.222	-.439	-.278
5	-2.237	-2.536	-2.224	-2.636	-1.935	-.353	-.338
6	*000.000	*000.000	*000.000	-.027	.074	-.035	.020
7	*000.000	*000.000	*000.000	-1.714	-1.086	-.392	-.203
8	*000.000	*000.000	*000.000	-2.701	-1.690	-.398	-.301
9	*000.000	*000.000	*000.000	-2.929	-1.837	-.554	-.141
10	-1.876	-1.899	-1.692	-1.616	-.803	-.216	-.060
11	-1.614	-1.684	*000.000	-.641	-.405	-.260	-.145
12	-1.335	-1.265	-.876	-.441	-.349	-.307	-.240
13	-1.570	-1.193	-.731	-.425	-.346	-.261	-.204
14	-1.613	-1.083	-.716	-.368	-.332	-.282	-.303
15	-.770	-.457	.255	.316	.073	.274	-.202
16	-.800	.015	.288	.194	.219	.225	-.053
17	-.813	-.055	.272	.253	.227	.208	-.063
18	-.855	-.134	.201	.221	.167	.070	-.128
19	-1.000	-.507	-.175	-.102	-.164	.055	-.221
20	-1.924	-1.322	-.870	-.582	-.387	-.402	-.221
21	-2.403	-1.698	-1.246	-.583	-.432	-.358	-.254
22	-2.445	-1.625	-1.170	-.659	-.429	-.499	-.293
23	-1.263	-.894	-.753	-.413	-.412	-.454	-.335
24	-.590	-.087	-.017	-.239	-.198	-.205	-.079
25	.870	1.005	.340	.473	-.035	-.832	-.570
26	.615	1.208	1.121	.121	*000.000	.106	.097
27	-.143	.708	.875	1.085	.871	.371	.108
28	-.229	.297	.427	.743	.487	.151	.146
29	-.295	.238	.371	.512	.247	.162	.200
30	.633	1.095	1.151	.829	.806	.608	.067
31	.106	.688	.729	.489	.345	.435	.167
32	-.038	.476	.610	.457	.271	.213	.178
33	-.092	.300	.401	.262	.224	.197	.175

Table 9. - Continued.

(c) $C_{T,S} = 0.60$, $q_S = 21.45$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.118	1.153	.538	.516	1.119	1.086	.797
2	.939	1.039	.645	.544	1.007	1.081	.784
3	.790	.847	.511	.550	.901	.974	.686
4	.366	.451	.296	.353	.599	.687	.449
5	-.048	.019	-.092	.254	.282	.343	.187
6	*000.000	*000.000	*000.000	-.141	-.062	-.189	-.254
7	*000.000	*000.000	*000.000	.120	.352	.418	.288
8	*000.000	*000.000	*000.000	-.919	-.957	-.781	-.675
9	*000.000	*000.000	*000.000	-1.884	-1.967	-1.698	-1.337
10	-.432	-.515	-.728	-1.662	-1.578	-1.332	-1.062
11	-.581	-.786	*000.000	-1.194	-1.265	-1.016	-.813
12	-.834	-.621	-.616	-.779	-.843	-.633	-.535
13	-.304	-.497	-.501	-.506	-.572	-.458	-.337
14	-.304	-.422	-.407	-.437	-.507	-.387	-.306
15	-.095	-.038	.235	.347	.304	.272	.309
16	.256	.178	.173	.263	.210	.177	-.103
17	.289	.148	.125	.135	.129	.183	-.045
18	.251	.114	.122	.118	.082	.074	-.096
19	.078	-.077	-.051	-.084	-.122	.076	-.167
20	-.381	-.491	-.402	-.484	-.498	-.470	-.437
21	-.676	-.821	-.605	-.666	-.738	-.706	-.555
22	-.731	-.819	-.650	-.677	-.706	-.714	-.527
23	-.461	-.301	-.046	-.160	-.169	-.217	-.439
24	-.159	.050	.029	.043	.006	-.022	-.166
25	.269	.014	-.227	.063	.426	-.218	.088
26	-.386	-.759	-.557	-.111	*000.000	-.257	.192
27	-.634	-.668	-.533	-.173	-.033	-.182	-.188
28	-.319	-.317	-.067	.059	-.046	-.005	-.021
29	-.014	.104	.173	.307	.316	.272	.225
30	1.096	1.064	.377	.665	.504	.529	.888
31	.432	.526	.263	.617	.548	.573	.564
32	.214	.347	.305	.554	.506	.432	.494
33	.067	.250	.259	.331	.336	.284	-.124

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.097	1.208	.507	.536	1.087	1.113	.874
2	.720	.824	.341	.241	.802	.846	.650
3	.494	.562	.154	.117	.629	.686	.516
4	.063	.141	-.154	-.145	.169	.291	.153
5	-.323	-.339	-.504	-.272	-.170	-.056	-.066
6	*000.000	*000.000	*000.000	-.045	-.023	.012	.018
7	*000.000	*000.000	*000.000	-.577	-.451	-.376	-.291
8	*000.000	*000.000	*000.000	-1.391	-1.494	-1.305	-1.148
9	*000.000	*000.000	*000.000	-2.314	-2.572	-2.345	-1.933
10	-.580	-.739	-.911	-1.900	-1.921	-1.757	-1.355
11	-.661	-.878	*000.000	-1.254	-1.394	-1.160	-.917
12	-.988	-.620	-.662	-.725	-.836	-.715	-.538
13	-.360	-.532	-.508	-.475	-.581	-.543	-.363
14	-.474	-.506	-.462	-.461	-.558	-.518	-.323
15	-.283	-.062	.233	.364	.339	.359	-.355
16	.117	.092	.218	.366	.343	.247	-.162
17	.175	.128	.225	.355	.272	.274	-.045
18	.153	.104	.133	.243	.181	.097	-.099
19	-.073	-.090	-.093	-.063	-.189	.116	-.186
20	-.650	-.568	-.467	-.602	-.683	-.659	-.429
21	-1.027	-.929	-.814	-.702	-.847	-.818	-.596
22	-1.054	-.884	-.732	-.616	-.749	-.795	-.568
23	-.728	-.317	-.130	-.172	-.211	-.376	-.487
24	-.360	.059	.058	.120	.138	.012	-.188
25	.603	.669	.407	.480	.720	.619	.575
26	-.075	-.150	.024	-.274	*000.000	-.006	.227
27	-.404	-.357	-.159	.098	-.020	-.196	.023
28	-.204	-.115	.069	.576	.410	.104	.280
29	-.002	.237	.258	.456	.480	.499	.407
30	1.058	1.014	.493	.861	.963	.940	.652
31	.483	.578	.386	.691	.729	.720	.714
32	.199	.403	.365	.540	.573	.469	.545
33	.062	.301	.314	.391	.414	.352	-.024

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.112	1.088	.363	.227	.955	1.107	.715
2	.511	.491	-.050	-.326	.406	.606	.407
3	.215	.158	-.367	-.547	.076	.293	.162
4	-.196	-.348	-.562	-.623	-.205	-.002	-.157
5	-.542	-.769	-.804	-.701	-.544	-.371	-.367
6	*000.000	*000.000	*000.000	.016	-.003	.009	-.029
7	*000.000	*000.000	*000.000	-.988	-.738	-.608	-.624
8	*000.000	*000.000	*000.000	-1.790	-1.713	-1.538	-1.422
9	*000.000	*000.000	*000.000	-2.772	-2.870	-2.561	-2.200
10	-.715	-.971	-1.149	-2.056	-2.100	-1.914	-1.601
11	-.694	-1.072	*000.000	-1.249	-1.397	-1.157	-1.009
12	-1.017	-.757	-.769	-.740	-.898	-.744	-.620
13	-.495	-.644	-.624	-.540	-.626	-.590	-.474
14	-.480	-.532	-.435	-.428	-.484	-.442	-.415
15	-.219	-.220	.284	.410	.240	.310	-.414
16	.137	.039	.262	.410	.336	.305	-.252
17	.148	.042	.283	.338	.290	.309	-.252
18	.108	.042	.158	.253	.178	.136	-.218
19	-.101	-.196	-.110	-.077	-.188	.142	-.274
20	-.756	-.692	-.573	-.602	-.685	-.629	-.476
21	-1.173	-1.048	-.829	-.694	-.780	-.780	-.589
22	-1.316	-1.052	-.869	-.597	-.669	-.725	-.577
23	-1.054	-.405	-.283	-.212	-.228	-.395	-.653
24	-.477	.059	.127	.094	.123	.054	-.314
25	.961	.960	.446	.632	.922	.802	.549
26	.340	.397	.463	.029	*000.000	.025	.174
27	-.123	-.075	.185	.566	-.022	-.209	-.074
28	-.108	.002	.148	.596	.806	.661	.465
29	.038	.211	.362	.524	.513	.481	.356
30	1.034	1.045	.739	.978	1.070	1.082	.764
31	.489	.644	.536	.757	.757	.747	.575
32	.292	.396	.462	.573	.567	.542	.486
33	.085	.330	.320	.442	.394	.374	-.029

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.939	.851	-.165	-.282	.588	.825	.494
2	.113	-.021	-.774	-1.101	-.173	.093	-.059
3	-.162	-.395	-.946	-1.321	-.578	-.210	-.232
4	-.697	-.863	-1.165	-1.240	-.774	-.538	-.542
5	-.997	-1.275	-1.337	-1.266	-.998	-.844	-.750
6	*000.000	*000.000	*000.000	.006	.024	-.018	-.041
7	*000.000	*000.000	*000.000	-1.374	-1.077	-.975	-.856
8	*000.000	*000.000	*000.000	-2.482	-2.336	-2.163	-1.932
9	*000.000	*000.000	*000.000	-3.183	-3.270	-3.002	-2.513
10	-.855	-1.125	-1.268	-2.254	-2.299	-2.162	-1.766
11	-.808	-1.212	*000.000	-1.312	-1.538	-1.381	-1.097
12	-1.164	-.812	-.775	-.728	-.845	-.781	-.623
13	-.633	-.733	-.648	-.537	-.605	-.555	-.492
14	-.795	-.655	-.574	-.547	-.538	-.590	-.442
15	-.223	-.281	.327	.478	.322	.283	-.508
16	-.117	.107	.329	.464	.369	.284	-.317
17	-.089	.093	.272	.373	.307	.245	-.227
18	-.103	.052	.199	.265	.215	.092	-.230
19	-.307	-.230	-.165	-.086	-.159	.142	-.228
20	-1.025	-.825	-.632	-.667	-.659	-.712	-.467
21	-1.591	-1.198	-1.014	-.730	-.729	-.775	-.484
22	-1.677	-1.133	-.949	-.621	-.599	-.793	-.617
23	-1.254	-.493	-.330	-.220	-.197	-.387	-.513
24	-.562	.077	.149	.066	.105	-.031	-.253
25	1.075	1.203	.536	.692	1.055	.965	.678
26	.577	.821	.724	.069	*000.000	-.155	.211
27	-.021	.210	.416	1.003	.693	.088	.153
28	-.078	.162	.290	.767	.802	.681	.505
29	-.056	.336	.407	.588	.573	.494	.410
30	.952	1.114	.913	.958	1.055	1.011	.767
31	.455	.732	.629	.801	.781	.760	.621
32	.214	.499	.515	.635	.612	.535	.554
33	.009	.403	.401	.465	.469	.331	-.100

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.626	.474	-.502	-.669	.241	.658	.182
2	-.211	-.592	-1.361	-1.720	-.743	-.304	-.627
3	-.639	-1.067	-1.563	-1.953	-1.329	-.789	-.838
4	-1.027	-1.489	-1.722	-2.003	-1.405	-.986	-.948
5	-1.225	-1.749	-1.674	-1.926	-1.521	-1.198	-1.159
6	*000.000	*000.000	*000.000	.034	.109	.005	-.149
7	*000.000	*000.000	*000.000	-1.648	-1.383	-1.134	-1.013
8	*000.000	*000.000	*000.000	-3.224	-3.038	-2.497	-2.103
9	*000.000	*000.000	*000.000	-3.482	-3.547	-2.992	-2.336
10	-1.023	-1.469	-1.566	-2.580	-2.586	-2.178	-1.656
11	-.948	-1.382	*000.000	-1.382	-1.617	-1.290	-.971
12	-1.345	-.953	-.898	-.776	-.680	-.624	-.518
13	-.746	-.865	-.682	-.579	-.542	-.631	-.527
14	-.912	-.797	-.620	-.546	-.557	-.622	-.554
15	-.232	-.320	.372	.497	.303	.308	-.518
16	-.257	.054	.336	.455	.330	.289	-.376
17	-.280	.052	.335	.371	.283	.301	-.277
18	-.266	0.	.228	.251	.142	.067	-.366
19	-.462	-.293	-.114	-.093	-.175	.182	-.350
20	-1.269	-.967	-.727	-.699	-.651	-.698	-.443
21	-1.435	-1.337	-1.056	-.723	-.577	-.575	-.456
22	-2.102	-1.346	-1.082	-.751	-.669	-.452	-.534
23	-1.702	-.643	-.422	-.292	-.270	-.431	-.421
24	-.606	.006	.113	-.010	-.006	-.141	-.299
25	1.212	1.282	.525	.641	1.056	1.150	.344
26	.831	1.088	.922	.259	*000.000	-.114	.158
27	.233	.450	.649	.999	.946	.591	.482
28	.004	.219	.380	.771	.779	.650	.454
29	-.021	.344	.478	.621	.588	.535	.372
30	.962	1.100	1.049	1.035	1.037	1.099	.678
31	.486	.770	.744	.868	.810	.794	.616
32	.197	.514	.691	.679	.608	.542	.538
33	.026	.378	.484	.449	.374	.322	-.124

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.379	-.040	-1.103	-1.142	-.165	.361	-.437
2	-.694	-1.319	-2.165	-2.534	-1.194	-.578	-.851
3	-.987	-1.665	-2.209	-2.442	-1.413	-.765	-.838
4	-1.385	-1.911	-2.178	-2.391	-1.552	-1.059	-.946
5	-1.498	-2.082	-1.930	-2.113	-1.584	-1.170	-.959
6	*000.000	*000.000	*000.000	.046	.191	.009	-.078
7	*000.000	*000.000	*000.000	-1.938	-1.462	-.970	-.777
8	*000.000	*000.000	*000.000	-3.020	-2.550	-1.804	-1.292
9	*000.000	*000.000	*000.000	-3.686	-3.437	-2.506	-1.402
10	-1.185	-1.680	-1.722	-2.528	-2.183	-1.378	-.725
11	-1.055	-1.477	*000.000	-1.210	-.956	-.640	-.553
12	-1.352	-.977	-.850	-.486	-.428	-.538	-.496
13	-.865	-.840	-.725	-.426	-.462	-.515	-.458
14	-1.045	-.784	-.673	-.417	-.425	-.494	-.422
15	-.322	-.372	.273	.548	.349	.263	-.675
16	-.441	.049	.319	.449	.343	.301	-.404
17	-.483	.063	.262	.416	.311	.367	-.250
18	-.421	.010	.202	.292	.136	.157	-.231
19	-.679	-.387	-.201	-.069	-.275	.290	-.344
20	-1.527	-1.086	-.866	-.694	-.657	-.739	-.575
21	-2.139	-1.459	-1.184	-.642	-.539	-.575	-.478
22	-2.521	-1.487	-1.161	-.657	-.572	-.483	-.522
23	-1.839	-.733	-.636	-.347	-.542	-.509	-.442
24	-.780	.006	.001	-.324	-.370	-.339	-.332
25	1.194	1.201	.355	.513	.986	1.023	.153
26	1.048	1.255	.926	.448	*000.000	-.159	.095
27	.348	.651	.825	1.032	.904	.471	.355
28	.075	.340	.510	.824	.820	.596	.407
29	-.032	.347	.545	.621	.585	.448	.340
30	.856	1.084	1.074	1.025	1.017	.981	.539
31	.400	.716	.752	.771	.704	.675	.520
32	.167	.560	.584	.661	.585	.435	.526
33	-.012	.372	.410	.426	.314	.192	-.147

Table 9.- Continued.

(c) $C_{T,S} = 0.60$, $q_S = 21.45$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.004	-.542	-1.874	-1.657	-.509	.273	-.779
2	-1.124	-1.790	-2.541	-3.075	-1.702	-.799	-.988
3	-1.464	-2.298	-2.834	-3.342	-2.191	-1.220	-.951
4	-1.710	-2.502	-2.815	-3.156	-2.121	-1.231	-.842
5	-1.839	-2.583	-2.506	-2.766	-2.016	-1.200	-.729
6	*000.000	*000.000	*000.000	.046	.190	.013	-.008
7	*000.000	*000.000	*000.000	-2.207	-1.635	-1.017	-.763
8	*000.000	*000.000	*000.000	-3.500	-3.037	-1.991	-1.023
9	*000.000	*000.000	*000.000	-4.188	-3.752	-2.264	-.779
10	-1.394	-1.777	-1.810	-2.535	-2.159	-1.228	-.462
11	-1.156	-1.515	*000.000	-1.230	-1.097	-.558	-.365
12	-1.356	-1.068	-.850	-.596	-.506	-.354	-.341
13	-1.096	-.991	-.747	-.498	-.586	-.241	-.449
14	-1.325	-.931	-.701	-.456	-.630	-.400	-.455
15	-.518	-.358	.406	.614	.359	.533	-.522
16	-.688	.123	.373	.490	.371	.318	-.241
17	-.683	.024	.336	.385	.268	.429	-.255
18	-.639	-.019	.227	.288	.207	.333	-.186
19	-.824	-.365	-.177	-.034	.163	.143	-.258
20	-1.806	-1.189	-.867	-.638	-.600	-.590	-.518
21	-2.498	-1.602	-1.220	-.670	-.647	-.342	-.393
22	-2.776	-1.573	-1.189	-.519	-.479	-.406	-.417
23	-2.071	-.838	-.622	-.333	-.401	-.332	-.450
24	-.439	-.020	.139	-.110	-.236	-.223	-.325
25	1.136	1.046	.080	.383	.957	1.194	-.061
26	1.048	1.269	1.062	.544	*000.000	-.179	.120
27	.493	.883	1.072	1.198	1.001	.760	.383
28	.067	.419	.576	.955	.879	.694	.362
29	-.071	.435	.544	.709	.665	.620	.406
30	.878	1.192	1.241	1.113	1.093	1.136	.422
31	.392	.760	.811	.815	.742	.806	.367
32	.160	.552	.719	.645	.586	.464	.441
33	.002	.381	.501	.442	.298	.441	-.075

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.369	-1.046	-2.363	-2.520	-1.111	-.138	-1.157
2	-1.782	-2.579	-3.839	-4.124	-2.545	-1.329	-1.427
3	-2.016	-3.050	-3.809	-4.343	-2.981	-1.508	-1.319
4	-2.160	-3.018	-3.380	-3.719	-2.516	-1.477	-.949
5	-2.183	-2.892	-2.878	-3.073	-2.214	-1.455	-.848
6	*000.000	*000.000	*000.000	.026	.183	.100	-.005
7	*000.000	*000.000	*000.000	-2.444	-1.778	-.901	-.695
8	*000.000	*000.000	*000.000	-3.541	-2.835	-1.623	-.909
9	*000.000	*000.000	*000.000	-4.148	-3.568	-1.909	-.712
10	-1.689	-2.144	-2.111	-2.840	-2.367	-1.103	-.583
11	-1.250	-1.609	*000.000	-1.097	-1.034	-.471	-.385
12	-1.579	-1.179	-.974	-.635	-.515	-.342	-.308
13	-1.289	-1.095	-.800	-.489	-.532	-.404	-.502
14	-1.538	-.968	-.697	-.440	-.480	-.345	-.497
15	-.652	-.328	.383	.564	.308	.369	-.393
16	-.907	.093	.388	.488	.352	.390	-.524
17	-.878	.016	.381	.440	.351	.391	-.272
18	-.830	-.036	.227	.304	.166	.158	-.298
19	-1.052	-.459	-.227	-.065	-.177	.207	-.299
20	-1.978	-1.198	-.861	-.541	-.554	-.357	-.510
21	-2.867	-1.725	-1.272	-.745	-.642	-.420	-.536
22	-3.157	-1.706	-1.282	-.713	-.483	-.313	-.717
23	-2.207	-.888	-.629	-.382	-.423	-.401	-.606
24	-.903	-.053	.086	-.166	-.353	-.351	-.414
25	.979	.759	-.219	.077	.808	.930	-.226
26	1.114	1.351	1.208	.782	*000.000	-.018	.152
27	.504	1.040	1.190	1.172	.994	.742	.355
28	.124	.528	.662	.939	.873	.487	.241
29	-.071	.433	.574	.702	.550	.440	.228
30	.679	1.127	1.181	1.064	1.034	1.007	.190
31	.335	.795	.844	.833	.745	.722	.269
32	.123	.578	.710	.668	.556	.460	.299
33	-.045	.401	.539	.473	.350	.267	-.010

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.727	-1.713	-2.918	-2.941	-1.560	-1.174	-1.408
2	-2.094	-3.275	-4.225	-4.762	-2.911	-1.773	-1.496
3	-2.328	-3.507	-4.121	-4.663	-3.176	-1.714	-1.258
4	-2.639	-3.643	-3.998	-4.424	-3.040	-1.866	-1.232
5	-2.456	-3.317	-3.281	-3.450	-2.433	-1.392	-.620
6	*000.000	*000.000	*000.000	-.019	.129	.016	-.053
7	*000.000	*000.000	*000.000	-2.611	-1.762	-.743	-.437
8	*000.000	*000.000	*000.000	-3.660	-2.827	-1.194	-.560
9	*000.000	*000.000	*000.000	-3.965	-3.340	-1.028	-.377
10	-1.680	-2.161	-2.149	-2.509	-1.948	-.652	-.392
11	-1.434	-1.797	*000.000	-1.097	-.936	-.380	-.303
12	-1.588	-1.272	-.998	-.607	-.440	-.326	-.338
13	-1.505	-1.185	-.802	-.480	-.434	-.352	-.464
14	-1.741	-1.061	-.702	-.437	-.413	-.340	-.418
15	-.875	-.385	.428	.572	.331	.414	-.232
16	-1.169	.067	.382	.522	.359	.337	-.157
17	-1.075	-.003	.347	.441	.323	.335	-.134
18	-1.020	-.082	.228	.339	.222	.171	-.142
19	-1.201	-.490	-.216	-.019	.121	.212	-.185
20	-2.228	-1.341	-.944	-.678	-.625	-.467	-.525
21	-3.168	-1.899	-1.417	-.766	-.632	-.537	-.598
22	-3.332	-1.821	-1.348	-.756	-.440	-.453	-.482
23	-2.232	-.941	-.686	-.458	-.480	-.426	-.500
24	-1.064	-.072	.038	-.165	-.350	-.357	-.393
25	.824	.428	-.738	-.249	.613	-.582	-.681
26	1.150	1.332	1.149	.897	*000.000	.039	.044
27	.577	1.038	1.163	1.135	.905	.638	.288
28	.153	.563	.730	.932	.835	.422	.328
29	-.134	.442	.643	.756	.583	.436	.364
30	.695	1.218	1.270	1.183	1.107	1.041	.200
31	.269	.797	.856	.838	.675	.637	.257
32	.094	.597	.742	.696	.560	.486	.388
33	-.049	.383	.506	.457	.303	.254	.018

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.241	-2.779	-4.271	-3.816	-2.507	-2.094	-1.583
2	-2.590	-4.075	-4.976	-5.137	-3.449	-1.903	-1.323
3	-2.846	-4.306	-5.038	-5.505	-4.009	-2.008	-1.332
4	-3.085	-4.316	-4.867	-5.157	-3.753	-1.694	-1.009
5	-2.655	-3.523	-3.491	-3.511	-2.566	-1.018	-.573
6	*000.000	*000.000	*000.000	-.050	-.007	-.208	.005
7	*000.000	*000.000	*000.000	-2.623	-1.686	-.818	-.436
8	*000.000	*000.000	*000.000	-3.801	-2.858	-.885	-.463
9	*000.000	*000.000	*000.000	-4.097	-3.198	-.823	-.449
10	-1.894	-2.425	-2.396	-2.445	-1.665	-.553	-.313
11	-1.579	-1.873	*000.000	-.942	-.579	-.340	-.262
12	-1.633	-1.368	-1.042	-.573	-.386	-.338	-.349
13	-1.749	-1.249	-.881	-.474	-.418	-.380	-.426
14	-1.927	-1.177	-.799	-.479	-.442	-.367	-.454
15	-.987	-.359	.448	.519	.299	.442	-.067
16	-1.313	.031	.359	.496	.371	.372	-.031
17	-1.217	-.075	.272	.380	.305	.318	-.056
18	-1.221	-.153	.189	.312	.188	.126	-.123
19	-1.377	-.550	-.280	-.066	-.153	.136	-.199
20	-2.270	-1.418	-.965	-.659	-.591	-.472	-.344
21	-3.093	-1.810	-1.233	-.641	-.511	-.414	-.479
22	-3.634	-2.063	-1.563	-.713	-.546	-.570	-.519
23	-2.242	-1.118	-.826	-.564	-.605	-.636	-.696
24	-1.100	-.120	-.039	-.345	-.390	-.414	-.418
25	.736	.034	-1.340	-.691	.263	-1.562	-.947
26	1.096	1.257	.995	.843	*000.000	.144	.002
27	.615	1.150	1.255	1.154	.932	.581	.303
28	.145	.619	.750	.905	.702	.364	.338
29	-.134	.413	.576	.680	.475	.371	.383
30	.578	1.076	1.122	1.036	.956	.759	.293
31	.294	.802	.842	.775	.608	.563	.348
32	.080	.594	.771	.640	.492	.419	.383
33	-.009	.386	.521	.414	.287	.282	.124

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.534	-3.098	-4.547	-4.098	-2.706	-2.066	-1.553
2	-2.857	-4.595	-5.660	-5.764	-3.832	-1.646	-1.360
3	-3.207	-4.883	-5.372	-5.902	-4.359	-1.807	-1.344
4	-3.395	-4.552	-4.891	-5.332	-3.706	-1.363	-.844
5	-3.155	-4.063	-4.055	-4.198	-3.029	-1.282	-.682
6	*000.000	*000.000	*000.000	-.073	-.125	-.177	.076
7	*000.000	*000.000	*000.000	-2.648	-1.679	-.649	-.415
8	*000.000	*000.000	*000.000	-3.582	-2.666	-.714	-.418
9	*000.000	*000.000	*000.000	-3.755	-2.671	-.715	-.430
10	-1.997	-2.400	-2.364	-2.164	-1.324	-.474	-.375
11	-1.659	-1.851	*000.000	-.863	-.542	-.422	-.370
12	-1.624	-1.385	-1.019	-.573	-.426	-.373	-.420
13	-1.916	-1.284	-.897	-.515	-.491	-.466	-.442
14	-2.116	-1.114	-.729	-.434	-.377	-.316	-.382
15	-1.187	-.313	.449	.536	.278	.442	-.174
16	-1.486	.063	.357	.388	.304	.352	-.008
17	-1.347	-.032	.294	.380	.249	.333	-.058
18	-1.344	-.134	.139	.277	.185	.129	-.121
19	-1.549	-.567	-.313	-.072	-.169	.123	-.211
20	-2.624	-1.475	-1.106	-.738	-.641	-.574	-.671
21	-3.274	-1.887	-1.316	-.609	-.561	-.409	-.350
22	-3.162	-1.752	-1.301	-.584	-.488	-.465	-.434
23	-1.678	-.932	-.774	-.387	-.413	-.332	-.354
24	-.914	-.101	-.069	-.300	-.302	-.262	-.283
25	.516	-.279	-1.646	-.771	-.041	-2.161	-1.019
26	1.075	1.296	.971	.864	*000.000	.273	-.023
27	.535	1.163	1.149	1.125	.847	.532	.305
28	.120	.704	.829	.919	.553	.400	.380
29	-.173	.448	.543	.657	.418	.398	.345
30	.542	1.179	1.174	.966	.877	.682	.220
31	.195	.845	.838	.647	.466	.495	.305
32	.037	.553	.681	.507	.390	.410	.379
33	-.002	.367	.442	.334	.262	.228	.086

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.666	-3.675	-5.265	-4.694	-3.248	-1.827	-1.615
2	-3.134	-5.005	-5.966	-5.788	-3.686	-1.664	-1.267
3	-3.176	-4.816	-5.324	-5.546	-3.205	-1.575	-1.040
4	-3.533	-4.768	-5.011	-5.328	-2.912	-1.230	-.752
5	-3.448	-4.404	-4.283	-4.367	-2.369	-1.358	-.600
6	*000.000	*000.000	*000.000	-.117	-.299	-.177	-.018
7	*000.000	*000.000	*000.000	-2.304	-1.330	-.527	-.414
8	*000.000	*000.000	*000.000	-2.915	-1.560	-.632	-.413
9	*000.000	*000.000	*000.000	-2.802	-1.098	-.587	-.371
10	-2.065	-2.528	-2.340	-1.523	-.681	-.367	-.194
11	-1.714	-2.012	*000.000	-.700	-.375	-.258	-.263
12	-1.390	-1.257	-.808	-.439	-.332	-.264	-.260
13	-1.818	-1.134	-.679	-.419	-.385	-.314	-.315
14	-2.142	-1.046	-.682	-.462	-.374	-.320	-.382
15	-1.130	-.338	.411	.330	.305	.409	-.086
16	-1.154	.054	.335	.332	.248	.297	-.019
17	-1.248	-.064	.261	.223	.271	.245	-.028
18	-1.219	-.155	.176	.128	.149	.121	-.178
19	-1.369	-.540	-.314	-.140	-.162	.094	-.229
20	-2.345	-1.253	-.810	-.592	-.479	-.449	-.498
21	-3.017	-1.657	-1.100	-.513	-.486	-.318	-.367
22	-2.929	-1.581	-1.086	-.479	-.455	-.381	-.442
23	-1.263	-.743	-.596	-.437	-.368	-.355	-.396
24	-.458	-.208	-.261	-.308	-.295	-.262	-.310
25	.506	-.670	-2.113	-.863	-1.596	-2.401	-1.072
26	1.139	1.222	.899	.845	*000.000	.210	.014
27	.529	1.164	1.196	.950	.527	.512	.266
28	.077	.691	.844	.791	.423	.395	.330
29	-.099	.421	.584	.585	.405	.425	.378
30	.618	1.237	1.247	.824	.791	.657	.402
31	.217	.819	.848	.534	.487	.475	.453
32	.044	.493	.663	.506	.398	.402	.377
33	.061	.299	.425	.262	.298	.235	.103

Table 9. - Continued.

(d) $C_{T,s} = 0.30$, $q_s = 19.17$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.080	1.126	.758	.537	1.017	1.035	.802
2	.792	.831	.525	.736	1.093	1.175	.907
3	.579	.592	.357	.667	.912	1.042	.829
4	.131	.049	-.160	.498	.621	.605	.463
5	-.231	-.356	-.523	.200	.238	.319	.190
6	*000.000	*000.000	*000.000	-.061	-.067	-.153	-.263
7	*000.000	*000.000	*000.000	-.195	.181	.347	.219
8	*000.000	*000.000	*000.000	-1.199	-1.040	-.896	-.912
9	*000.000	*000.000	*000.000	-2.322	-2.232	-1.956	-1.753
10	-.537	-.745	-1.029	-1.728	-1.565	-1.392	-1.248
11	-.682	-.982	*000.000	-1.352	-1.340	-1.182	-1.135
12	-1.044	-.792	-.741	-.894	-.723	-.659	
13	-.408	-.627	-.595	-.551	-.619	-.447	-.418
14	-.380	-.522	-.456	-.441	-.498	-.388	-.412
15	-.276	.591	.155	.143	.129	.155	-.433
16	.148	-.010	.125	.115	.042	.134	-.250
17	.147	.057	.106	.092	.037	.045	-.119
18	.178	.068	.086	.042	.049	.086	-.079
19	-.066	-.174	-.137	-.192	-.225	.086	-.259
20	-.601	-.652	-.504	-.450	-.603	-.466	-.614
21	-.856	-.926	-.714	-.574	-.738	-.585	-.621
22	-.963	-.886	-.657	-.500	-.513	-.514	-.527
23	-.731	-.382	-.129	-.114	-.144	-.272	-.427
24	-.400	-.003	-.057	-.087	-.070	.037	-.224
25	.503	.423	.155	-.020	.268	.135	.002
26	-.137	-.386	-.320	-.160	*000.000	-.383	.751
27	-.461	-.506	-.478	-.152	.096	.055	-.313
28	-.249	-.289	-.196	-.070	-.110	0.	-.016
29	-.027	.102	.193	.053	.073	.183	.168
30	.942	.987	.500	.260	.428	.718	.867
31	.382	.480	.326	.371	.417	.382	.401
32	.198	.312	.301	.451	.418	.431	.377
33	.068	.225	.231	.263	.284	.204	-.139

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.869	.936	.383	.593	.962	.976	.841
2	.243	.299	-.184	.643	.643	.664	.643
3	.038	-.068	-.517	.189	.463	.569	.496
4	-.401	-.632	-.945	-.012	.139	.199	.147
5	-.648	-.977	-1.211	-.320	-.219	-.182	-.165
6	*000.000	*000.000	*000.000	-.180	-.053	-.073	-.154
7	*000.000	*000.000	*000.000	-.701	-.626	-.486	-.407
8	*000.000	*000.000	*000.000	-1.760	-1.670	-1.552	-1.425
9	*000.000	*000.000	*000.000	-2.696	-2.619	-2.412	-2.128
10	-.839	-1.222	-1.483	-2.354	-2.134	-1.929	-1.835
11	-.857	-1.242	*000.000	-1.486	-1.553	-1.391	-1.360
12	-1.300	-.897	-.806	-.710	-1.021	-.873	-.765
13	-.564	-.748	-.641	-.642	-.749	-.669	-.477
14	-.519	-.606	-.501	-.515	-.603	-.515	-.446
15	-.203	.445	.153	.307	.289	.234	-.363
16	-.044	.007	.105	.258	.175	.199	-.223
17	.021	.009	.134	.239	.175	.156	-.121
18	-.019	-.065	.040	.118	.060	.045	-.260
19	-.178	-.282	-.117	-.161	-.281	.070	-.347
20	-.789	-.747	-.518	-.634	-.708	-.644	-.638
21	-1.235	-1.099	-.824	-.718	-.819	-.737	-.629
22	-1.344	-1.061	-.753	-.644	-.675	-.703	-.589
23	-1.087	-.469	-.135	-.221	-.235	-.334	-.498
24	-.540	-.034	-.027	.014	.022	0.	-.337
25	.866	.976	.680	.285	.616	.446	.437
26	.270	.273	.434	-.171	*000.000	-.156	.561
27	-.191	-.194	-.062	-.099	.038	-.200	-.022
28	-.173	-.157	-.001	.239	.006	.322	.340
29	-.035	.140	.293	.412	.423	.430	.333
30	.886	.988	.669	.789	.710	.648	.853
31	.369	.470	.410	.552	.567	.527	.401
32	.154	.313	.373	.491	.462	.465	.383
33	.019	.231	.287	.339	.326	.275	-.136

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.684	.685	-.403	.430	.832	.852	.804
2	-.105	-.328	-1.033	-.068	.289	.326	.374
3	-.418	-.802	-1.425	-.324	-.108	-.005	.145
4	-.731	-1.149	-1.692	-.517	-.345	-.271	-.120
5	-1.115	-1.617	-1.949	-.891	-.799	-.749	-.575
6	*000.000	*000.000	*000.000	-.175	-.056	-.061	-.133
7	*000.000	*000.000	*000.000	-1.283	-.984	-.893	-.862
8	*000.000	*000.000	*000.000	-2.345	-2.216	-2.080	-1.984
9	*000.000	*000.000	*000.000	-3.235	-3.181	-2.996	-2.737
10	-.986	-1.405	-1.777	-2.509	-2.382	-2.278	-2.003
11	-.962	-1.405	*000.000	-1.557	-1.669	-1.492	-1.257
12	-1.373	-.926	-.881	-.738	-.990	-.861	-.754
13	-.671	-.802	-.748	-.664	-.732	-.709	-.539
14	-.783	-.719	-.622	-.624	-.650	-.672	-.544
15	-.264	.359	.255	.338	.180	.136	-.559
16	-.142	.030	.219	.326	.234	.152	-.179
17	-.199	.044	.174	.326	.220	.199	-.027
18	-.181	.015	.117	.210	.124	-.033	-.148
19	-.325	-.290	-.146	-.129	-.243	-.020	-.243
20	-1.137	-.930	-.589	-.789	-.741	-.816	-.547
21	-1.649	-1.257	-1.032	-.839	-.806	-.838	-.538
22	-1.791	-1.177	-.961	-.724	-.606	-.717	-.610
23	-1.513	-.542	-.257	-.293	-.236	-.409	-.484
24	-.709	-.011	.046	.006	-.013	-.111	-.362
25	1.029	1.149	.406	.600	.811	.741	.783
26	.693	.884	.706	-.118	*000.000	-.154	.676
27	.119	.260	.387	.495	.094	-.236	.204
28	-.066	.060	.226	.583	.807	.748	.589
29	-.009	.244	.379	.686	.864	.867	.502
30	.941	1.069	.805	.971	.952	.941	1.039
31	.462	.655	.533	.749	.677	.630	.721
32	.207	.413	.435	.542	.476	.398	.537
33	-.019	.301	.360	.389	.332	.225	-.039

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.267	-.033	-1.452	-.197	.288	.416	.421
2	-.730	-1.361	-2.551	-1.234	-.542	-.287	-.209
3	-1.077	-1.813	-2.847	-1.675	-1.062	-.572	-.334
4	-1.573	-2.360	-3.048	-1.758	-1.435	-1.132	-.874
5	-1.584	-2.330	-2.636	-1.739	-1.505	-1.336	-1.087
6	*000.000	*000.000	*000.000	-.139	-.020	-.046	-.184
7	*000.000	*000.000	*000.000	-1.771	-1.429	-1.321	-1.412
8	*000.000	*000.000	*000.000	-2.956	-2.722	-2.470	-2.487
9	*000.000	*000.000	*000.000	-3.862	-3.806	-3.660	-3.396
10	-1.274	-1.847	-2.138	-2.877	-2.755	-2.669	-2.417
11	-1.129	-1.666	*000.000	-1.702	-1.818	-1.624	-1.460
12	-1.629	-1.074	-1.039	-.829	-1.030	-.845	-.771
13	-.826	-.905	-.782	-.673	-.661	-.644	-.608
14	-1.032	-.836	-.704	-.609	-.612	-.637	-.612
15	-.374	.239	.319	.492	.290	.219	-.537
16	-.451	.060	.339	.445	.323	.216	-.371
17	-.444	.032	.296	.348	.244	.217	-.179
18	-.443	-.016	.166	.214	.137	.042	-.267
19	-.660	-.496	-.190	-.157	-.233	.026	-.496
20	-1.508	-1.062	-.782	-.821	-.733	-.787	-.532
21	-2.255	-1.463	-1.185	-.871	-.743	-.773	-.592
22	-2.428	-1.368	-1.074	-.738	-.599	-.587	-.578
23	-1.967	-.648	-.374	-.274	-.190	-.331	-.547
24	-.836	0.	.077	.018	-.047	-.160	-.340
25	1.066	1.172	-.056	.739	.943	.938	.827
26	.996	1.227	.834	-.068	*000.000	-.406	.479
27	.370	.427	.692	.931	.887	.851	.787
28	.093	.230	.404	.661	.702	.630	.515
29	.018	.336	.461	.570	.537	.493	.417
30	.811	1.041	.896	.936	.898	.858	.832
31	.418	.704	.639	.767	.682	.642	.647
32	.176	.451	.512	.576	.499	.442	.401
33	.013	.377	.466	.481	.406	.353	-.035

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.299	-.811	-2.518	-.713	-.249	.202	.177
2	-1.455	-2.241	-3.538	-1.993	-1.276	-.893	-.642
3	-1.926	-2.881	-3.785	-2.305	-1.628	-1.038	-.711
4	-2.154	-3.208	-3.895	-2.539	-1.836	-1.481	-1.182
5	-2.104	-3.108	-3.402	-2.335	-1.843	-1.444	-1.150
6	*000.000	*000.000	*000.000	-.127	.071	-.023	.023
7	*000.000	*000.000	*000.000	-2.233	-1.739	-1.574	-1.660
8	*000.000	*000.000	*000.000	-3.322	-2.973	-2.502	-2.178
9	*000.000	*000.000	*000.000	-3.789	-3.517	-3.205	-2.937
10	-1.510	-2.171	-2.442	-2.990	-2.679	-2.363	-1.816
11	-1.235	-1.735	*000.000	-1.344	-.981	-.679	-.888
12	-1.739	-1.214	-1.069	-.752	-.556	-.572	-.611
13	-.964	-.945	-.742	-.642	-.700	-.675	-.646
14	-1.372	-.995	-.803	-.627	-.637	-.627	-.659
15	-.541	.195	.315	.468	.278	.263	-.603
16	-.634	.148	.313	.395	.302	.279	-.197
17	-.652	.021	.229	.284	.190	.194	-.239
18	-.631	-.048	.133	.157	.118	.001	-.282
19	-.794	-.427	-.242	-.200	-.226	.027	-.416
20	-1.822	-1.169	-.889	-.675	-.750	-.718	-.582
21	-2.641	-1.483	-1.220	-.677	-.614	-.506	-.502
22	-2.884	-1.422	-1.120	-.664	-.486	-.513	-.679
23	-2.348	-.770	-.566	-.503	-.586	-.607	-.534
24	-.925	-.008	-.006	-.354	-.402	-.453	-.423
25	.919	.832	-.653	.586	.853	.922	.811
26	1.045	1.235	.792	.067	*000.000	-.075	.483
27	.580	.876	.898	1.048	.881	.708	.854
28	.194	.469	.570	.822	.749	.676	.629
29	-.014	.351	.467	.557	.515	.454	.480
30	.765	1.097	1.056	.952	.866	.846	.744
31	.400	.745	.671	.764	.665	.597	.562
32	.195	.507	.566	.523	.470	.395	.476
33	.013	.373	.453	.373	.247	.180	-.121

Table 9.- Concluded.

(d) $C_{T,S} = 0.30$, $q_s = 19.17$

$\alpha = 30°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-1.093	-2.203	-4.234	-1.926	-1.122	-.405	-.427
2	-2.097	-3.213	-4.500	-3.018	-2.066	-1.297	-.914
3	-2.452	-3.772	-4.685	-3.377	-2.501	-1.544	-1.063
4	-2.841	-4.259	-5.033	-3.794	-2.817	-2.004	-1.366
5	-2.585	-3.751	-1.956	-3.000	-2.410	-1.875	-1.361
6	.000,000	.000,000	.000,000	-.078	.043	.005	-.051
7	.000,000	.000,000	.000,000	-2.406	-1.869	-1.422	-1.127
8	.000,000	.000,000	.000,000	-3.847	-3.301	-2.579	-1.912
9	.000,000	.000,000	.000,000	-4.707	-4.175	-3.102	-1.884
10	-1.656	-2.372	-2.510	-3.073	-2.551	-1.805	-.901
11	-1.442	-1.989	.000,000	-1.636	-1.407	-.889	-.770
12	-1.694	-1.223	-1.023	-.712	-.719	-.674	-.731
13	-1.224	-1.043	-.811	-.593	-.736	-.645	-.650
14	-1.635	-1.067	-.789	-.712	-.783	-.527	-.543
15	-.740	.142	.352	.534	.310	.302	-.489
16	-.999	.088	.351	.396	.254	.215	-.463
17	-1.005	0.	.308	.355	.170	.231	-.387
18	-.981	-.096	.153	.211	.031	-.004	-.390
19	-1.149	-.531	-.331	-.271	-.380	.010	-.502
20	-2.330	-1.367	-1.054	-.844	-1.027	-.820	-.833
21	-3.049	-1.638	-1.228	-.805	-.711	-.677	-.675
22	-3.768	-1.704	-1.222	-.954	-.907	-.789	-.924
23	-2.769	-.869	-.568	-.510	-.653	-.437	-.466
24	-1.166	-.059	.010	-.240	-.508	-.467	-.462
25	.672	.316	-1.183	.231	.551	.825	.528
26	1.182	1.299	1.023	.542	.000.000	.212	.461
27	.708	1.040	1.104	1.071	.825	.635	.709
28	.321	.633	.790	.951	.862	.725	.690
29	-.050	.457	.597	.666	.551	.533	.532
30	.704	1.174	1.202	1.012	.919	.891	.704
31	.408	.847	.905	.848	.716	.665	.723
32	.199	.569	.702	.610	.504	.436	.509
33	.048	.384	.518	.396	.255	.188	-.015

$\alpha = 35°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-1.714	-3.095	-4.993	-2.954	-1.963	-.962	-.941
2	-3.180	-4.966	-6.426	-4.881	-3.449	-2.176	-1.528
3	-3.287	-5.116	-6.160	-4.796	-3.506	-2.114	-1.366
4	-3.526	-5.100	-5.884	-4.781	-3.460	-2.312	-1.486
5	-3.059	-4.415	-4.583	-3.922	-2.865	-2.019	-1.318
6	.000,000	.000,000	.000,000	-.125	.049	.084	.040
7	.000,000	.000,000	.000,000	-2.913	-2.157	-1.468	-1.187
8	.000,000	.000,000	.000,000	-4.065	-3.223	-2.198	-1.324
9	.000,000	.000,000	.000,000	-5.022	-4.240	-2.857	-1.377
10	-1.877	-2.667	-2.782	-3.255	-2.511	-1.553	-.777
11	-1.494	-2.012	.000,000	-1.494	-1.326	-.726	-.605
12	-1.723	-1.349	-1.046	-.826	-.728	-.661	-.579
13	-1.397	-1.095	-.824	-.665	-.642	-.476	-.495
14	-1.879	-1.095	-.853	-.667	-.701	-.631	-.660
15	-.901	.105	.405	.491	.329	.288	-.442
16	-1.250	.114	.365	.443	.286	.286	-.239
17	-1.191	.017	.315	.377	.268	.255	-.352
18	-1.162	-.070	.169	.232	.151	.056	-.359
19	-1.449	-.549	-.359	-.244	-.170	.040	-.457
20	-2.372	-1.269	-.987	-.765	-.559	-.606	-.673
21	-3.661	-1.743	-1.285	-.879	-.652	-.649	-.647
22	-4.612	-1.949	-1.399	-.893	-.706	-.633	-.758
23	-3.032	-.973	-.665	-.586	-.625	-.600	-.681
24	-1.496	-.078	-.022	-.357	-.617	-.566	-.547
25	.314	-.211	-1.686	-.191	.189	.577	.240
26	1.162	1.267	.938	.712	.000.000	.390	.425
27	.880	1.211	1.258	1.098	.880	.608	.682
28	.396	.778	.914	.955	.859	.738	.603
29	.009	.537	.668	.674	.621	.564	.533
30	.706	1.223	1.279	1.066	.974	.906	.595
31	.402	.852	.886	.806	.674	.605	.538
32	.192	.601	.744	.585	.513	.407	.429
33	.042	.425	.560	.401	.283	.208	-.059

$\alpha = 40°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-2.562	-4.377	-6.084	-3.715	-2.726	-1.903	-1.401
2	-3.875	-5.773	-6.857	-4.874	-3.554	-2.426	-1.565
3	-4.057	-5.981	-6.925	-5.569	-4.048	-2.531	-1.586
4	-3.916	-5.534	-6.935	-4.575	-3.479	-2.462	-1.458
5	-3.271	-4.647	-4.757	-3.698	-2.920	-1.963	-1.050
6	.000,000	.000,000	.000,000	-.004	.014	.075	.032
7	.000,000	.000,000	.000,000	-2.459	-2.090	-1.318	-.902
8	.000,000	.000,000	.000,000	-2.997	-3.159	-2.085	-1.134
9	.000,000	.000,000	.000,000	-2.731	-3.656	-1.893	-.721
10	-2.054	-2.825	-2.851	-1.709	-2.172	-1.034	-.564
11	-1.588	-2.070	.000,000	-1.318	-1.026	-.597	-.525
12	-1.601	-1.264	-1.037	-.945	-.636	-.473	-.523
13	-1.630	-1.176	-.885	-1.051	-.608	-.521	-.581
14	-2.196	-1.129	-.845	-1.062	-.603	-.512	-.611
15	-1.079	.083	.486	.553	.318	.354	-.303
16	-1.504	.097	.388	.362	.339	.303	-.129
17	-1.412	-.005	.321	.343	.301	.324	-.021
18	-1.458	-.088	.189	.284	.137	.150	-.114
19	-1.554	-.549	-.354	-.195	-.232	.138	-.326
20	-3.177	-1.531	-1.173	-.987	-.753	-.690	-.707
21	-4.274	-1.880	-1.341	-.943	-.770	-.682	-.734
22	-4.081	-1.594	-1.159	-.844	-.641	-.561	-.676
23	-2.566	-.791	-.637	-.534	-.540	-.596	-.625
24	-1.521	-.124	-.091	-.331	-.465	-.487	-.502
25	-.136	-1.080	-2.662	-.831	-.243	-.253	.009
26	1.154	1.171	.790	.832	.000.000	.515	.377
27	.935	1.293	1.288	1.099	.852	.565	.655
28	.448	.955	1.065	1.060	.966	.736	.689
29	-.048	.614	.753	.759	.664	.606	.595
30	.624	1.281	1.321	1.100	1.016	.933	.910
31	.345	.908	.936	.831	.721	.645	.601
32	.162	.592	.696	.760	.514	.398	.414
33	.067	.434	.513	.413	.299	.232	.015

$\alpha = 45°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-3.231	-5.260	-6.812	-4.800	-3.280	-2.341	-1.297
2	-4.794	-7.145	-8.304	-6.245	-4.421	-2.992	-1.676
3	-4.613	-6.816	-7.540	-5.735	-4.168	-2.591	-1.461
4	-4.493	-6.400	-6.810	-5.204	-3.861	-2.354	-1.351
5	-3.729	-5.200	-5.191	-3.863	-3.049	-1.804	-1.107
6	.000,000	.000,000	.000,000	-.153	-.117	-.081	-.072
7	.000,000	.000,000	.000,000	-2.163	-1.902	-1.001	-.703
8	.000,000	.000,000	.000,000	-3.113	-3.092	-1.575	-.848
9	.000,000	.000,000	.000,000	-2.125	-3.496	-1.607	-.679
10	-2.320	-3.121	-3.006	-1.363	-1.850	-.659	-.462
11	-1.535	-1.945	.000,000	-1.255	-.768	-.477	-.428
12	-1.585	-1.260	-1.014	-1.032	-.540	-.440	-.438
13	-1.780	-1.120	-.869	-.858	-.626	-.494	-.557
14	-2.201	-1.002	-.779	-.748	-.486	-.450	-.561
15	-1.144	.101	.498	.536	.311	.425	-.231
16	-1.280	.110	.340	.336	.272	.310	-.009
17	-1.472	-.051	.274	.303	.251	.266	-.026
18	-1.345	-.102	.131	.170	.117	.091	-.097
19	-1.822	-.585	-.356	-.181	-.268	.109	-.300
20	-3.004	-1.258	-.951	-.815	-.650	-.602	-.730
21	-3.955	-1.506	-1.142	-.790	-.671	-.512	-.636
22	-3.664	-1.282	-1.042	-.793	-.640	-.589	-.600
23	-1.977	-.711	-.608	-.549	-.541	-.555	-.572
24	-1.008	-.249	-.280	-.442	-.509	-.426	-.460
25	-.788	-2.095	-3.743	-1.605	-.663	-1.001	-.292
26	1.063	1.020	.612	.779	.000.000	.478	.408
27	.903	1.254	1.228	1.012	.811	.518	.608
28	.407	.878	.998	.953	.805	.684	.640
29	-.057	.581	.731	.741	.590	.580	.586
30	.542	1.182	1.206	1.041	.941	.831	.768
31	.253	.804	.816	.721	.611	.546	.523
32	.126	.578	.666	.612	.497	.449	.472
33	.060	.370	.446	.376	.283	.289	.125

Table 10.- Pressure coefficients for wing with propeller rotation down at tip, inboard slat, $\delta_f = 40°$.

(a) $C_{T,S} = 0.90$, $q_s = 20.20$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.964	.742	-.036	.750	1.041	1.097	.551
2	1.025	1.120	.835	.714	.968	1.032	.309
3	.917	1.170	1.018	.747	.853	.968	.355
4	.622	.918	.980	.553	.584	.673	.105
5	.199	.497	.616	.373	.273	.284	-.077
6	*000.000	*000.000	*000.000	.056	.025	.096	.086
7	*000.000	*000.000	*000.000	.307	.426	.486	.130
8	*000.000	*000.000	*000.000	-.563	-.622	-.482	-.335
9	*000.000	*000.000	*000.000	-1.475	-1.542	-1.241	-.586
10	-.146	-.099	-.155	-1.377	-1.208	-.935	-.417
11	-.267	-.564	*000.000	-1.033	-.984	-.581	-.274
12	-.502	-.465	-.507	-.634	-.687	-.318	-.206
13	-.229	-.462	-.499	-.588	-.572	-.280	-.227
14	-.202	-.490	-.483	-.587	-.614	-.299	-.224
15	.045	-.034	.374	.370	.376	.421	.206
16	.048	.144	.147	.148	.122	.210	.145
17	-.180	-.400	-.267	-.417	-.584	-.172	-.091
18	-.533	-.879	-.702	-.970	-1.175	-.754	-.406
19	-.879	-1.223	-1.158	-1.439	-1.583	-.803	-.577
20	-1.009	-1.308	-1.194	-1.514	-1.560	-.910	-.749
21	-.915	-1.027	-.923	-1.208	-1.344	-.677	-.691
22	-.603	-.659	-.425	-.665	-.927	-.622	-.613
23	-.266	-.099	-.075	-.055	-.148	-.256	-.363
24	-.237	-.084	-.097	-.049	.015	.096	-.113
25	-.176	-.746	-1.848	.571	.520	.471	.416
26	-.577	-1.471	-1.708	.009	*000.000	.203	.585
27	-.672	-.968	-1.064	.142	.177	.293	.035
28	-.157	-.299	-.116	.599	.041	.144	.238
29	-.018	.250	.310	.471	.510	.409	.422
30	.448	.528	.471	.791	.790	.671	.230
31	.592	.838	.669	.853	.968	.807	.189
32	.351	.739	.617	.706	.807	.752	.618
33	.146	.471	.474	.636	.596	.596	.412

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.032	.966	.221	.613	1.117	1.079	.528
2	.919	1.105	.756	.398	.885	.998	.270
3	.820	1.060	.914	.387	.713	.787	.140
4	.472	.810	.904	.294	.446	.462	-.113
5	.125	.331	.524	.165	.133	.132	-.185
6	*000.000	*000.000	*000.000	.233	.077	.086	.018
7	*000.000	*000.000	*000.000	-.099	.193	.253	.068
8	*000.000	*000.000	*000.000	-.810	-.753	-.633	-.445
9	*000.000	*000.000	*000.000	-1.614	-1.637	-1.422	-.889
10	-.281	-.220	-.220	-1.493	-1.306	-1.110	-.589
11	-.339	-.610	*000.000	-1.029	-.950	-.621	-.391
12	-.604	-.521	-.535	-.669	-.702	-.447	-.228
13	-.235	-.548	-.462	-.570	-.556	-.404	-.294
14	-.343	-.538	-.475	-.585	-.600	-.396	-.279
15	0.	-.050	.418	.369	.438	.442	.187
16	.027	.101	.184	.139	.144	.105	.044
17	-.303	-.484	-.284	-.411	-.579	-.266	-.215
18	-.664	-.901	-.696	-1.012	-1.089	-.818	-.607
19	-.997	-1.367	-1.178	-1.401	-1.554	-.829	-.742
20	-1.045	-1.420	-1.124	-1.517	-1.566	-1.082	-.914
21	-.957	-1.094	-.961	-1.189	-1.396	-.956	-.792
22	-.668	-.687	-.490	-.763	-.992	-.944	-.765
23	-.421	-.102	-.133	-.040	-.121	-.371	-.585
24	-.385	-.060	-.106	-.057	.083	.044	-.130
25	.106	-.294	-1.131	.637	.672	.509	.405
26	-.468	-1.121	-1.151	-.011	*000.000	.154	.566
27	-.619	-.760	-.781	.444	.245	.247	0.
28	-.227	-.273	-.035	.642	.521	.087	.187
29	-.090	.288	.342	.539	.584	.520	.435
30	.510	.598	.591	.890	1.021	.951	.182
31	.594	.974	.649	.862	1.030	1.057	.578
32	.479	.759	.633	.776	.881	.853	.755
33	.163	.475	.472	.605	.642	.609	.381

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.083	1.034	.508	.470	1.070	1.218	.302
2	.923	1.095	.887	.222	.749	.909	.063
3	.756	.943	.895	.085	.517	.678	-.114
4	.425	.644	.826	.031	.252	.293	-.254
5	.032	.187	.362	-.037	-.059	-.003	-.282
6	*000.000	*000.000	*000.000	.224	.086	.096	-.045
7	*000.000	*000.000	*000.000	-.337	-.157	.129	.081
8	*000.000	*000.000	*000.000	-1.024	-1.023	-.786	-.547
9	*000.000	*000.000	*000.000	-1.834	-1.931	-1.635	-1.145
10	-.234	-.357	-.326	-1.595	-1.451	-1.131	-.682
11	-.355	-.691	*000.000	-1.105	-1.104	-.739	-.374
12	-.653	-.578	-.514	-.481	-.680	-.427	-.246
13	-.256	-.570	-.511	-.569	-.585	-.375	-.238
14	-.336	-.605	-.550	-.587	-.640	-.410	-.310
15	-.120	-.183	.361	.439	.423	.578	.276
16	.044	.081	.104	.167	.119	.183	.178
17	-.361	-.560	-.198	-.415	-.564	-.246	-.279
18	-.738	-1.099	-.792	-1.016	-1.133	-.823	-.614
19	-.971	-1.443	-1.200	-1.395	-1.450	-.810	-.791
20	-1.054	-1.421	-1.258	-1.427	-1.447	-.959	-.858
21	-.919	-1.186	-.970	-1.156	-1.324	-.987	-.749
22	-.708	-.763	-.470	-.740	-.871	-.815	-.730
23	-.434	-.173	-.095	-.029	-.146	-.322	-.485
24	-.399	-.121	-.091	-.032	.041	.031	-.027
25	.210	-.017	-.784	.759	.756	.660	.348
26	-.370	-.908	-1.146	.083	*000.000	.125	.573
27	-.607	-.688	-.587	.581	-.106	.275	-.091
28	-.143	-.244	-.016	.641	.854	.155	.196
29	-.119	.269	.388	.566	.594	.620	.531
30	.671	.746	.509	.906	.926	1.042	.163
31	.738	1.088	.632	.946	1.022	1.027	.657
32	.456	.695	.688	.711	.785	.791	.873
33	.237	.440	.446	.622	.621	.645	.249

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.115	1.101	.662	.300	1.021	1.166	.370
2	.897	1.063	.962	-.099	.589	.814	-.080
3	.649	.879	.845	-.220	.355	.485	-.198
4	.349	.486	.688	-.261	.089	.166	-.299
5	-.061	.053	.272	-.319	-.266	-.261	-.491
6	*000.000	*000.000	*000.000	.185	.128	.037	-.038
7	*000.000	*000.000	*000.000	-.550	-.358	-.156	-.161
8	*000.000	*000.000	*000.000	-1.317	-1.300	-.954	-.661
9	*000.000	*000.000	*000.000	-2.140	-2.145	-1.771	-1.100
10	-.307	-.442	-.438	-1.835	-1.619	-1.323	-.693
11	-.409	-.781	*000.000	-1.161	-1.131	-.719	-.392
12	-.731	-.631	-.603	-.470	-.721	-.415	-.233
13	-.320	-.666	-.546	-.599	-.597	-.365	-.277
14	-.424	-.625	-.501	-.566	-.549	-.414	-.251
15	-.195	-.262	.423	.427	.398	.512	.212
16	.031	.065	.198	.171	.113	.232	.190
17	-.365	-.643	-.343	-.501	-.647	-.257	-.301
18	-.770	-1.226	-.858	-1.026	-1.125	-.785	-.621
19	-1.063	-1.643	-1.366	-1.516	-1.531	-.958	-.856
20	-1.156	-1.730	-1.414	-1.516	-1.480	-.954	-.922
21	-1.075	-1.452	-1.113	-1.139	-1.206	-.967	-.749
22	-.915	-.989	-.627	-.783	-.877	-.790	-.803
23	-.682	-.238	-.083	-.041	-.184	-.291	-.436
24	-.449	-.137	-.082	.002	.076	-.049	-.027
25	.376	.232	-.357	.788	.890	.709	.265
26	-.157	-.609	-.684	.128	*000.000	.086	.501
27	-.507	-.576	-.494	.812	-.078	.109	-.067
28	-.143	-.228	.013	.646	.798	.153	.317
29	-.078	.267	.393	.574	.557	.528	.528
30	.750	.810	.521	.904	.943	.957	.154
31	.939	1.146	.756	1.004	1.026	1.065	.736
32	.505	.752	.770	.796	.856	.867	.948
33	.261	.485	.478	.602	.609	.508	.262

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.088	1.170	.677	.123	.927	1.110	.060
2	.792	1.044	.915	-.380	.431	.542	-.097
3	.562	.806	.796	-.584	.090	.290	-.295
4	.220	.406	.532	-.612	-.167	-.166	-.535
5	-.180	-.050	.114	-.596	-.409	-.378	-.637
6	*000.000	*000.000	*000.000	.138	.081	-.109	-.133
7	*000.000	*000.000	*000.000	-.752	-.478	-.347	-.366
8	*000.000	*000.000	*000.000	-1.521	-1.419	-1.104	-.885
9	*000.000	*000.000	*000.000	-2.265	-2.281	-1.896	-1.239
10	-.404	-.458	-.577	-1.880	-1.644	-1.280	-.754
11	-.503	-.806	*000.000	-1.220	-1.202	-.857	-.491
12	-.736	-.610	-.579	-.427	-.665	-.468	-.245
13	-.386	-.620	-.560	-.585	-.546	-.377	-.299
14	-.473	-.627	-.559	-.499	-.534	-.379	-.308
15	-.167	-.258	.323	.418	.398	.443	.206
16	.052	.068	.158	.164	.127	.148	.048
17	-.493	-.696	-.416	-.484	-.611	-.229	-.262
18	-.881	-1.247	-1.070	-1.029	-1.040	-.899	-.651
19	-1.183	-1.621	-1.499	-1.330	-1.367	-.825	-.730
20	-1.266	-1.763	-1.457	-1.317	-1.361	-1.128	-.948
21	-1.191	-1.647	-1.280	-1.108	-1.193	-.873	-.965
22	-1.018	-.985	-.773	-.724	-.677	-.703	-.760
23	-.782	-.193	-.145	-.074	-.139	-.487	-.620
24	-.520	-.121	-.140	0.	.034	-.065	-.066
25	.423	.451	-.028	.755	.937	.721	.218
26	-.069	-.260	-.446	.130	*000.000	.037	.388
27	-.471	-.390	-.391	.817	.205	.058	-.126
28	-.157	-.124	0.	.672	.767	.462	.181
29	-.070	.319	.464	.568	.569	.467	.414
30	.712	.949	.529	.898	.912	.814	.198
31	.816	1.128	.774	.905	.940	.902	.606
32	.463	.781	.705	.789	.776	.741	.898
33	.161	.533	.497	.644	.606	.513	.255

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.024	1.114	.696	-.019	.774	.936	-.197
2	.670	.809	.755	-.604	.208	.457	-.505
3	.529	.609	.699	-.914	-.097	.216	-.595
4	.064	.189	.385	-.809	-.344	-.269	-.733
5	-.266	-.296	-.003	-.869	-.638	-.500	-.771
6	*000.000	*000.000	*000.000	.118	.060	.014	-.111
7	*000.000	*000.000	*000.000	-.936	-.539	-.274	-.357
8	*000.000	*000.000	*000.000	-1.720	-1.509	-.995	-.764
9	*000.000	*000.000	*000.000	-2.258	-2.256	-1.695	-1.139
10	-.427	-.618	-.637	-1.998	-1.709	-1.179	-.638
11	-.500	-.803	*000.000	-1.109	-1.059	-.539	-.359
12	-.820	-.635	-.623	-.402	-.623	-.403	-.312
13	-.466	-.686	-.578	-.464	-.389	-.305	-.318
14	-.533	-.700	-.609	-.552	-.538	-.380	-.427
15	-.117	-.276	.360	.493	.440	.500	.101
16	.050	-.022	.111	.192	.146	.197	-.120
17	-.557	-.841	-.478	-.502	-.658	-.361	-.270
18	-.975	-1.313	-.974	-.894	-.920	-.706	-.422
19	-1.301	-1.804	-1.486	-1.240	-1.183	-.562	-.583
20	-1.390	-1.878	-1.574	-1.083	-1.045	-.416	-.394
21	-1.391	-1.658	-1.286	-.922	-.939	-.507	-.465
22	-1.243	-1.199	-.837	-.629	-.565	-.354	-.317
23	-.984	-.274	-.151	-.172	-.214	-.320	-.414
24	-.528	-.146	-.066	-.055	-.139	-.155	-.220
25	.532	.647	.212	.792	.947	.857	.046
26	.057	-.013	-.044	.152	*000.000	-.019	.285
27	-.413	-.283	-.221	.923	.209	.127	-.094
28	-.150	-.106	.076	.706	.748	.482	.187
29	-.074	.316	.431	.618	.568	.496	.359
30	.761	1.048	.641	.925	.897	.972	.110
31	.880	1.038	.913	.927	.907	.991	.569
32	.488	.750	.725	.787	.757	.844	.782
33	.166	.502	.447	.599	.586	.492	.181

Table 10. - Continued.

(a) $C_{T,S} = 0.90$, $q_s = 20.20$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.995	1.104	.828	-.142	.624	.822	-.356
2	.567	.745	.752	-.829	.050	.178	-.810
3	.366	.505	.609	-.991	-.237	-.069	-.676
4	-.052	.066	.272	-1.093	-.533	-.474	-.759
5	-.377	-.340	-.062	-.963	-.666	-.656	-.750
6	*000.000	*000.000	*000.000	.096	.097	-.004	-.082
7	*000.000	*000.000	*000.000	-.935	-.578	-.379	-.350
8	*000.000	*000.000	*000.000	-1.660	-1.510	-1.121	-.798
9	*000.000	*000.000	*000.000	-2.254	-2.337	-1.782	-.925
10	-.506	-.641	-.693	-1.875	-1.578	-.975	-.207
11	-.550	-.866	*000.000	-1.110	-1.038	-.490	-.251
12	-.803	-.654	-.626	-.388	-.338	-.298	-.323
13	-.556	-.727	-.664	-.435	-.422	-.373	-.284
14	-.629	-.767	-.646	-.323	-.342	-.238	-.285
15	-.028	-.252	.254	.464	.362	.477	.143
16	0.	-.024	.093	.274	.180	.237	.059
17	-.576	-.841	-.510	-.444	-.604	-.258	-.133
18	-1.155	-1.410	-1.150	-.874	-.799	-.613	-.320
19	-1.516	-1.940	-1.635	-.642	-.645	-.684	-.510
20	-1.676	-2.043	-1.747	-.547	-.503	-.481	-.532
21	-1.740	-1.939	-1.571	-.796	-.665	-.375	-.249
22	-1.483	-1.323	-1.070	-.486	-.397	-.371	-.412
23	-1.067	-.317	-.251	-.263	-.253	-.250	-.391
24	-.595	-.168	-.066	-.238	-.196	-.241	-.309
25	.810	.810	.554	.749	.990	.846	-.045
26	.075	.285	.244	.191	*000.000	-.056	.348
27	-.393	-.113	-.091	.959	.268	.081	.012
28	-.178	-.016	.099	.698	.733	.531	.227
29	-.063	.308	.424	.593	.563	.458	.337
30	.735	1.078	.654	.918	.872	.863	.102
31	.922	1.140	.974	.950	.950	1.037	.597
32	.499	.773	.734	.805	.754	.750	.859
33	.132	.532	.492	.571	.536	.432	.206

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.017	1.123	.762	-.222	.583	.773	-.723
2	.566	.584	.528	-1.018	-.080	.004	-.979
3	.302	.320	.317	-1.207	-.451	-.207	-.958
4	-.120	-.107	.243	-1.214	-.689	-.700	-1.092
5	-.452	-.480	-.272	-1.074	-.763	-.837	-.975
6	*000.000	*000.000	*000.000	.134	.201	-.019	-.099
7	*000.000	*000.000	*000.000	-.938	-.620	-.463	-.410
8	*000.000	*000.000	*000.000	-1.761	-1.690	-1.235	-.693
9	*000.000	*000.000	*000.000	-2.176	-2.306	-1.615	-.432
10	-.503	-.740	-.737	-1.503	-1.208	-.480	-.284
11	-.555	-.968	*000.000	-.857	-.359	-.351	-.259
12	-.813	-.732	-.735	-.228	-.295	-.458	-.333
13	-.573	-.746	-.712	-.254	-.252	-.357	-.391
14	-.709	-.831	-.680	-.364	-.344	-.370	-.369
15	-.092	-.311	.342	.541	.426	.435	.059
16	+.023	-.061	.049	.271	.185	.084	-.020
17	-.622	-.909	-.642	-.196	-.357	-.307	-.436
18	-1.205	-1.506	-1.112	-.564	-.528	-.577	-.509
19	-1.769	-2.111	-1.718	-.507	-.546	-.583	-.563
20	-2.018	-2.325	-1.889	-.605	-.546	-.505	-.549
21	-1.822	-2.066	-1.639	-.382	-.458	-.468	-.494
22	-1.581	-1.463	-1.231	-.392	-.358	-.365	-.549
23	-1.096	-.394	-.350	-.310	-.351	-.379	-.440
24	-.588	-.226	-.105	-.262	-.254	-.315	-.351
25	.684	.892	.446	.771	1.001	.972	-.170
26	.180	.354	.365	.145	*000.000	.017	.315
27	-.352	-.086	-.020	.965	.583	.099	.089
28	-.137	-.044	.055	.720	.741	.535	.280
29	-.049	.287	.414	.613	.529	.412	.300
30	.809	1.043	.706	.943	.901	.896	.013
31	.910	1.038	.888	.963	.912	.964	.452
32	.453	.725	.665	.785	.739	.711	.810
33	.175	.488	.476	.573	.478	.447	.069

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.989	1.035	.793	-.306	.502	.663	-.919
2	.462	.493	.419	-1.188	-.173	-.337	-1.110
3	.234	.184	.232	-1.408	-.527	-.671	-1.116
4	-.205	-.210	.044	-1.318	-.773	-.915	-1.233
5	-.542	-.628	-.310	-1.122	-.804	-.995	-.915
6	*000.000	*000.000	*000.000	.121	.218	-.034	-.128
7	*000.000	*000.000	*000.000	-1.015	-.694	-.485	-.470
8	*000.000	*000.000	*000.000	-1.754	-1.521	-1.034	-.562
9	*000.000	*000.000	*000.000	-2.057	-1.965	-1.213	-.360
10	-.609	-.861	-.785	-1.479	-.993	-.316	-.193
11	-.642	-.987	*000.000	-.705	-.271	-.338	-.267
12	-.858	-.773	-.636	-.161	-.275	-.331	-.360
13	-.658	-.840	-.635	-.315	-.367	-.429	-.329
14	-.824	-.898	-.729	-.356	-.380	-.447	-.418
15	-.111	-.331	.341	.528	.418	.477	.021
16	-.093	-.122	.085	.294	.191	.031	-.110
17	-.787	-1.062	-.584	-.370	-.452	-.324	-.405
18	-1.424	-1.691	-1.277	-.598	-.635	-.675	-.592
19	-2.046	-2.286	-1.872	-.699	-.677	-.718	-.600
20	-2.139	-2.372	-1.779	-.584	-.520	-.546	-.626
21	-2.107	-2.243	-1.676	-.446	-.442	-.464	-.580
22	-1.860	-1.641	-1.326	-.441	-.458	-.489	-.551
23	-1.175	-.433	-.296	-.338	-.379	-.481	-.442
24	-.653	-.252	-.128	-.274	-.319	-.343	-.408
25	.724	.917	.703	.737	1.003	.938	-.236
26	.255	.478	.582	.162	*000.000	.037	.353
27	-.341	-.043	.153	.915	.647	.108	.231
28	-.180	-.032	.161	.731	.678	.469	.271
29	-.088	.274	.419	.632	.559	.413	.290
30	.789	1.068	.763	.934	.866	.796	-.037
31	.891	1.072	.976	.973	.939	.980	.476
32	.427	.692	.746	.779	.719	.701	.756
33	.094	.441	.559	.595	.517	.392	.063

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.929	.994	.609	-.400	.430	.358	-1.252
2	.363	.349	.327	-1.268	-.318	-.473	-1.303
3	.089	.040	.018	-1.435	-.626	-.933	-1.311
4	-.262	-.388	-.329	-1.443	-.836	-1.043	-1.261
5	-.623	-.765	-.442	-1.234	-.883	-1.085	-1.021
6	*000.000	*000.000	*000.000	.135	.207	.015	-.214
7	*000.000	*000.000	*000.000	-1.114	-.766	-.534	-.512
8	*000.000	*000.000	*000.000	-1.671	-1.433	-.867	-.496
9	*000.000	*000.000	*000.000	-1.870	-2.015	-.710	-.274
10	-.681	-.891	-1.006	-1.137	-.737	-.224	-.268
11	-.722	-1.087	*000.000	-.660	-.287	-.227	-.312
12	-.927	-.842	-.791	-.196	-.285	-.348	-.458
13	-.742	-.855	-.578	-.308	-.331	-.298	-.312
14	-1.007	-.968	-.639	-.384	-.340	-.268	-.431
15	-.171	-.313	.282	.549	.439	.535	-.115
16	-.136	-.162	.008	.216	.151	.292	-.017
17	-.914	-1.112	-.745	-.276	-.367	-.261	-.351
18	-1.542	-1.744	-1.324	-.648	-.582	-.496	-.449
19	-2.221	-2.420	-1.885	-.622	-.550	-.496	-.574
20	-2.468	-2.588	-1.895	-.510	-.492	-.529	-.531
21	-2.275	-2.354	-1.840	-.453	-.525	-.364	-.471
22	-1.924	-1.746	-1.430	-.424	-.382	-.454	-.513
23	-1.277	-.520	-.363	-.346	-.361	-.357	-.473
24	-.764	-.275	-.263	-.293	-.336	-.321	-.511
25	.731	1.005	.834	.716	1.014	.940	-.365
26	.274	.555	.747	.145	*000.000	.033	.220
27	-.362	.054	.123	.981	.693	.176	.192
28	-.169	.010	.055	.717	.705	.537	.200
29	-.130	.281	.502	.573	.499	.429	.154
30	.724	1.076	.852	.925	.845	.847	.022
31	.834	1.081	.942	.967	.898	1.039	.293
32	.364	.743	.832	.820	.741	.816	.865
33	.066	.461	.435	.560	.464	.449	.076

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.941	.960	.654	-.499	.298	-.066	-1.298
2	.288	.227	.054	-1.408	-.489	-1.088	-1.312
3	.016	-.063	-.097	-1.603	-.853	-1.227	-1.669
4	-.434	-.500	-.466	-1.523	-.944	-1.322	-1.217
5	-.771	-.908	-.696	-1.364	-1.031	-1.302	-1.034
6	*000.000	*000.000	*000.000	.108	.213	-.018	-.140
7	*000.000	*000.000	*000.000	-1.075	-.770	-.513	-.359
8	*000.000	*000.000	*000.000	-1.597	-1.495	-.899	-.388
9	*000.000	*000.000	*000.000	-1.675	-1.667	-.670	-.303
10	-.771	-.999	-1.088	-1.174	-.835	-.259	-.223
11	-.772	-1.086	*000.000	-.592	-.300	-.260	-.317
12	-.943	-.863	-.693	-.153	-.268	-.311	-.375
13	-.912	-.966	-.674	-.280	-.309	-.228	-.379
14	-1.084	-.975	-.726	-.310	-.294	-.257	-.352
15	-.195	-.289	.277	.493	.424	.491	.019
16	-.222	-.180	-.051	.293	.204	.218	-.042
17	-1.021	-1.107	-.574	-.261	-.321	-.115	-.208
18	-1.786	-1.820	-1.214	-.519	-.547	-.503	-.345
19	-2.439	-2.520	-1.902	-.595	-.577	-.448	-.531
20	-2.694	-2.735	-2.026	-.574	-.414	-.363	-.387
21	-2.654	-2.544	-1.873	-.584	-.541	-.303	-.478
22	-2.173	-1.832	-1.250	-.388	-.356	-.306	-.306
23	-1.178	-.530	-.355	-.423	-.339	-.345	-.429
24	-.772	-.249	-.187	-.286	-.274	-.260	-.288
25	.752	1.121	.947	.774	.997	.811	-.521
26	.279	.688	.786	.131	*000.000	.053	.267
27	-.395	.094	.192	.966	.731	.346	.275
28	-.206	-.014	.163	.733	.682	.498	.145
29	-.164	.288	.352	.562	.462	.362	.227
30	.684	1.102	.812	.955	.810	.807	.032
31	.773	1.078	1.094	.970	.843	1.029	.258
32	.354	.767	.815	.780	.695	.746	.544
33	.031	.479	.567	.545	.452	.436	.108

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.809	.875	.488	-.462	.213	-.493	-1.180
2	.146	.094	-.094	-1.469	-.652	-1.340	-1.150
3	-.144	-.249	-.324	-1.576	-.798	-1.346	-1.038
4	-.569	-.697	-.558	-1.610	-1.055	-1.469	-.787
5	-.899	-1.103	-.960	-1.533	-1.166	-1.395	-.787
6	*000.000	*000.000	*000.000	.056	.119	-.080	-.098
7	*000.000	*000.000	*000.000	-1.124	-.873	-.752	-.372
8	*000.000	*000.000	*000.000	-1.578	-1.624	-1.245	-.574
9	*000.000	*000.000	*000.000	-2.119	-2.367	-1.373	-.307
10	-.908	-1.142	-1.197	-1.395	-1.484	-.661	-.268
11	-.894	-1.173	*000.000	-.624	-.367	-.376	-.234
12	-1.048	-.949	-.827	-.163	-.308	-.423	-.270
13	-1.066	-1.009	-.721	-.314	-.339	-.381	-.278
14	-1.266	-1.131	-.838	-.347	-.393	-.317	-.307
15	-.341	-.259	.198	.529	.396	.431	-.109
16	-.374	-.189	.019	.286	.131	.092	-.067
17	-1.234	-1.268	-.730	-.233	-.475	-.266	-.227
18	-1.928	-1.928	-1.260	-.541	-.584	-.587	-.262
19	-2.647	-2.672	-1.972	-.621	-.609	-.536	-.316
20	-2.793	-2.706	-1.790	-.439	-.582	-.463	-.297
21	-2.734	-2.500	-1.734	-.411	-.380	-.337	-.330
22	-2.345	-2.004	-1.440	-.703	-.555	-.283	-.314
23	-1.097	-.586	-.400	-.195	-.241	-.110	-.220
24	-.478	-.213	-.103	-.200	-.220	-.100	-.238
25	.776	1.181	.962	.748	1.050	.639	-.423
26	.325	.821	.903	.094	*000.000	-.101	.276
27	-.396	.183	.308	1.013	.777	.360	.175
28	-.234	.056	.175	.749	.654	.426	.148
29	-.280	.278	.402	.620	.468	.328	.219
30	.658	1.059	.998	.970	.755	.772	-.019
31	.746	1.150	1.073	.983	.880	.927	.102
32	.288	.753	.793	.734	.658	.740	.588
33	.069	.480	.543	.595	.451	.426	.126

Table 10.- Continued.

(a) $C_{T,s} = 0.90$, $q_s = 20.20$

$\alpha = 65°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.808	.792	.384	-.409	.243	-1.035	-1.270
2	.034	-.075	-.340	-1.434	-.653	-1.698	-1.142
3	-.280	-.422	-.488	-1.617	-.995	-1.657	-.659
4	-.686	-.826	-.815	-1.751	-1.213	-1.727	-.974
5	-1.039	-1.225	-.957	-1.536	-1.218	-1.479	-.639
6	*000.000	*000.000	*000.000	.063	.142	-.232	-.074
7	*000.000	*000.000	*000.000	-1.075	-.876	-.834	-.463
8	*000.000	*000.000	*000.000	-1.597	-1.661	-1.056	-.228
9	*000.000	*000.000	*000.000	-1.696	-2.174	-.825	-.166
10	-.981	-1.120	-1.063	-1.021	-1.160	-.593	-.247
11	-.964	-1.226	*000.000	-.924	-.610	-.529	-.293
12	-.929	-.913	-.547	-.195	-.240	-.405	-.243
13	-1.187	-1.066	-.635	-.290	-.287	-.368	-.338
14	-1.357	-1.136	-.727	-.319	-.383	-.198	-.165
15	-.366	-.221	.217	.413	.327	.368	-.106
16	-.398	-.173	.137	.243	.140	.024	-.138
17	-1.084	-1.085	-.428	-.159	-.372	-.383	-.137
18	-2.165	-2.083	-1.398	-.591	-.564	-.490	-.309
19	-2.528	-2.336	-1.426	-.499	-.519	-.343	-.278
20	-2.910	-2.823	-1.929	-.501	-.514	-.359	-.270
21	-2.786	-2.589	-1.765	-.483	-.431	-.292	-.286
22	-2.269	-1.994	-1.377	-.365	-.433	-.310	-.411
23	-.978	-.621	-.421	-.256	-.232	-.271	-.333
24	-.913	-.315	-.095	-.198	-.201	-.174	-.169
25	.713	1.114	.967	.692	.914	.109	-.625
26	.201	.816	.920	.078	*000.000	-.162	.200
27	-.381	.223	.413	.963	.777	.244	.092
28	-.279	.047	.189	.691	.594	.284	.126
29	-.270	.256	.443	.547	.379	.205	.154
30	.552	1.044	.990	.950	.733	.641	-.005
31	.628	1.062	1.053	.884	.818	.831	.148
32	.272	.735	.815	.680	.603	.509	.422
33	0.	.454	.581	.467	.395	.299	.125

$\alpha = 70°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.704	.664	.105	-.535	-.024	-.960	-1.151
2	-.020	-.161	-.390	-1.385	-.679	-1.616	-.973
3	-.364	-.537	-.560	-1.858	-1.355	-1.722	-.857
4	-.708	-.872	-.774	-1.580	-1.193	-1.539	-.562
5	-1.132	-1.279	-.966	-1.468	-1.260	-1.728	-.831
6	*000.000	*000.000	*000.000	.074	.049	-.237	-.201
7	*000.000	*000.000	*000.000	-.960	-.877	-.692	-.276
8	*000.000	*000.000	*000.000	-1.628	-1.808	-.980	-.176
9	*000.000	*000.000	*000.000	-1.447	-2.092	-1.588	-.666
10	-1.011	-1.181	-1.059	-.903	-.972	-.447	-.213
11	-1.017	-1.249	*000.000	-.629	-.408	-.369	-.217
12	-1.002	-1.013	-.729	-.189	-.342	-.469	-.317
13	-1.129	-1.041	-.640	-.283	-.279	-.270	-.345
14	-1.296	-1.080	-.598	-.237	-.350	-.211	-.296
15	-.399	-.281	.255	.481	.309	.523	-.158
16	-.420	-.219	.068	.280	.112	.022	-.106
17	-1.267	-1.340	-.645	-.203	-.341	-.055	-.162
18	-2.058	-2.028	-1.237	-.503	-.662	-.512	-.283
19	-2.747	-2.694	-1.728	-.451	-.493	-.554	-.238
20	-2.772	-2.690	-1.452	-.376	-.423	-.365	-.358
21	-2.583	-2.362	-1.370	-.397	-.482	-.134	-.332
22	-2.039	-1.613	-.843	-.267	-.352	-.306	-.294
23	-.910	-.577	-.369	-.250	-.338	-.396	-.333
24	-.799	-.195	-.076	-.201	-.226	-.276	-.221
25	.715	1.195	.797	.785	.975	-.193	-.850
26	.300	.835	.844	.021	*000.000	-.183	.180
27	-.347	.167	.383	.908	.756	.343	.041
28	-.289	.013	.191	.662	.546	.271	.081
29	-.228	.229	.395	.516	.353	.143	.069
30	.580	1.073	.977	.910	.718	.542	-.055
31	.711	1.081	1.034	.904	.746	.862	-.091
32	.337	.784	.872	.702	.592	.593	.291
33	.039	.441	.601	.432	.386	.196	.038

$\alpha = 75°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.689	.719	.236	-.558	-.078	-1.058	-.859
2	-.078	-.108	-.284	-1.305	-.660	-1.416	-.945
3	-.358	-.480	-.323	-1.534	-1.195	-1.721	-.882
4	-.816	-.923	-.764	-1.591	-1.290	-1.657	-.343
5	-1.138	-1.307	-.935	-1.362	-1.204	-1.507	-.595
6	*000.000	*000.000	*000.000	.040	.132	-.247	-.114
7	*000.000	*000.000	*000.000	-.914	-.750	-.826	-.298
8	*000.000	*000.000	*000.000	-1.370	-1.552	-1.068	-.182
9	*000.000	*000.000	*000.000	-1.256	-1.847	-.729	-.169
10	-1.170	-1.241	-1.094	-.633	-.852	-.733	-.276
11	-1.079	-1.232	*000.000	-.516	-.371	-.363	-.096
12	-.868	-.965	-.595	-.133	-.279	-.479	-.222
13	-1.022	-.986	-.513	-.264	-.276	-.537	-.419
14	-1.272	-1.116	-.593	-.224	-.326	-.238	-.235
15	-.400	-.371	.281	.437	.350	.254	-.038
16	-.390	-.223	.124	.201	.117	-.023	-.106
17	-1.169	-1.139	-.452	-.141	-.320	-.364	-.232
18	-1.871	-1.908	-1.112	-.455	-.514	-.567	-.367
19	-2.530	-2.503	-1.540	-.491	-.498	-.571	-.334
20	-2.775	-2.661	-1.567	-.457	-.406	-.335	-.231
21	-2.604	-2.321	-1.180	-.352	-.430	-.283	-.231
22	-1.903	-1.598	-.873	-.291	-.181	-.230	-.161
23	-.883	-.550	-.299	-.208	-.229	-.186	-.228
24	-.676	-.081	-.040	-.204	-.188	-.427	-.207
25	.678	1.094	.705	.676	.875	-.125	-.453
26	.237	.830	.478	.025	*000.000	-.284	.147
27	-.389	.217	.490	.879	.791	.075	-.034
28	-.309	.028	.202	.640	.510	.157	.001
29	-.220	.236	.391	.502	.310	.125	.063
30	.507	1.079	.987	.853	.594	.374	-.175
31	.547	1.068	.987	.813	.761	.597	-.169
32	.250	.752	.845	.614	.565	.462	.208
33	.083	.418	.594	.334	.259	.190	-.022

$\alpha = 80°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.588	.645	.121	-.463	.115	-.830	-.269
2	-.185	-.210	-.329	-1.321	-.761	-1.322	-.905
3	-.441	-.493	-.424	-1.472	-1.216	-1.480	-.561
4	-.872	-.943	-.774	-1.456	-1.076	-1.071	-.329
5	-1.197	-1.260	-.904	-1.295	-1.229	-.913	-.429
6	*000.000	*000.000	*000.000	.023	.014	-.182	-.103
7	*000.000	*000.000	*000.000	-.899	-.869	-.494	-.139
8	*000.000	*000.000	*000.000	-1.199	-1.412	-.449	-.107
9	*000.000	*000.000	*000.000	-1.026	-1.325	-.492	-.069
10	-1.153	-1.181	-.949	-.607	-.537	-.249	-.064
11	-1.081	-1.117	*000.000	-.368	-.311	-.074	-.019
12	-.824	-.976	-.619	-.114	-.373	-.398	-.248
13	-.955	-.839	-.411	-.291	-.406	-.338	-.252
14	-1.102	-.960	-.468	-.193	-.222	-.146	-.194
15	-.373	-.385	.219	.403	.301	.343	-.107
16	-.312	-.174	.096	.202	.050	.118	-.069
17	-1.081	-1.244	-.614	-.231	-.198	-.032	-.130
18	-1.671	-1.851	-1.135	-.524	-.507	-.538	-.446
19	-2.511	-2.483	-1.441	-.472	-.761	-.298	-.374
20	-2.369	-2.317	-1.408	-.397	-.397	-.194	-.211
21	-2.524	-2.432	-1.579	-.439	-.541	-.162	-.261
22	-1.827	-1.640	-1.092	-.306	-.260	-.135	-.154
23	-.929	-.564	-.403	-.162	-.156	-.119	-.076
24	-.632	-.102	-.143	-.163	-.222	-.161	-.176
25	.644	1.084	.676	.690	.896	-.261	-.588
26	.331	.821	.826	-.033	*000.000	-.135	.064
27	-.432	.132	.339	.869	.670	.299	.027
28	-.295	.011	.152	.657	.453	.154	.033
29	-.269	.203	.366	.524	.318	.170	.075
30	.541	1.025	.849	.901	.619	.555	-.024
31	.630	1.054	.898	.820	.771	.820	-.141
32	.237	.692	.662	.557	.484	.482	.203
33	.080	.381	.505	.266	.273	.327	-.033

Table 10. - Continued.

(b) $C_{T,S} = 0.80$, $q_s = 20.00$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.073	.974	.384	.713	1.110	1.130	.825
2	1.037	1.099	.839	.625	.978	1.056	.550
3	.492	1.020	.875	.501	.747	.875	.401
4	.496	.662	.754	.403	.495	.569	.088
5	.110	.236	.324	.205	.127	.233	-.040
6	*000.000	*000.000	*000.000	.024	.057	.065	.075
7	*000.000	*000.000	*000.000	.251	.329	.464	.215
8	*000.000	*000.000	*000.000	-.752	-.829	-.640	-.514
9	*000.000	*000.000	*000.000	-1.756	-1.828	-1.639	-1.018
10	-.282	-.388	-.365	-1.733	-1.512	-1.199	-.759
11	-.392	-.740	*000.000	-1.219	-1.205	-.847	-.531
12	-.680	-.658	-.546	-.552	-.842	-.544	-.345
13	-.279	-.591	-.511	-.614	-.656	-.468	-.230
14	-.395	-.597	-.539	-.628	-.722	-.519	-.316
15	.060	-.284	.438	.384	.404	.400	.114
16	.136	.123	.165	.099	.051	.043	.098
17	-.325	-.474	-.239	-.445	-.702	-.313	-.242
18	-.796	-1.056	-.745	-1.063	-1.271	-1.049	-.618
19	-1.201	-1.359	-1.186	-1.401	-1.711	-.969	-.776
20	-1.298	-1.487	-1.228	-1.560	-1.747	-1.405	-1.051
21	-1.137	-1.230	-.921	-1.214	-1.522	-1.218	-.917
22	-.873	-.637	-.580	-.731	-.933	-.950	-.855
23	-.364	-.164	-.113	-.114	-.151	-.356	-.558
24	-.353	-.141	-.123	-.115	-.129	-.013	-.180
25	.100	-.212	-.901	.467	.566	.488	.445
26	-.554	-1.043	-.988	.009	*000.000	.078	.332
27	-.683	-.722	-.544	.095	.125	.278	.052
28	-.279	-.241	.042	.593	.070	.087	.183
29	.091	.214	.306	.489	.539	.398	.431
30	.833	.564	.537	.895	.874	.675	.119
31	1.104	1.015	.609	.875	1.052	.867	.559
32	.567	.706	.605	.760	.866	.778	.796
33	.269	.435	.501	.569	.636	.578	.530

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.283	1.197	.644	.599	1.179	1.225	.787
2	1.021	1.040	.793	.561	.846	.991	.445
3	.791	.401	.725	.441	.525	.687	.335
4	.437	.513	.578	.069	.246	.312	.010
5	-.007	.018	.152	-.073	-.066	.017	-.199
6	*000.000	*000.000	*000.000	.171	.034	.070	.002
7	*000.000	*000.000	*000.000	-.424	-.306	-.097	-.141
8	*000.000	*000.000	*000.000	-1.130	-1.131	-.879	-.726
9	*000.000	*000.000	*000.000	-2.129	-2.244	-1.915	-1.411
10	-.337	-.487	-.557	-1.853	-1.632	-1.320	-.980
11	-.456	-.818	*000.000	-1.284	-1.304	-.955	-.699
12	-.770	-.651	-.634	-.554	-.846	-.578	-.456
13	-.326	-.656	-.594	-.633	-.716	-.562	-.353
14	-.430	-.649	-.537	-.592	-.709	-.452	-.447
15	0.	-.308	.292	.426	.383	.522	.147
16	.149	.056	.182	.135	.072	.114	.029
17	-.378	-.617	-.303	-.457	-.749	-.429	-.408
18	-.840	-1.158	-.827	-1.058	-1.276	-1.185	-.846
19	-1.300	-1.623	-1.297	-1.501	-1.777	-1.185	-.967
20	-1.353	-1.617	-1.311	-1.462	-1.615	-1.530	-1.104
21	-1.413	-1.431	-1.067	-1.230	-1.503	-1.385	-1.107
22	-.994	-.790	-.580	-.698	-.884	-1.103	-.910
23	-.553	-.221	-.112	-.097	-.166	-.387	-.674
24	-.490	-.167	-.141	-.074	-.051	-.036	-.213
25	.453	.217	-.328	.642	.741	.697	.502
26	-.290	-.557	-.487	.113	*000.000	.040	.253
27	-.536	-.623	-.386	.489	.125	.215	-.218
28	-.181	-.162	.026	.670	.812	.169	.310
29	.111	.247	.380	.547	.577	.590	.419
30	.869	.731	.549	.966	.989	1.000	.051
31	1.044	1.125	.556	1.009	1.052	1.097	.671
32	.639	.754	.554	.858	.877	.890	.909
33	.322	.476	.380	.614	.588	.574	.109

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.125	1.204	.621	.247	.987	1.049	.688
2	.837	.940	.732	-.254	.501	.578	.298
3	.622	.802	.572	-.378	.173	.374	.098
4	.173	.314	.300	-.501	-.137	.017	-.215
5	-.211	-.192	-.196	-.668	-.491	-.336	-.465
6	*000.000	*000.000	*000.000	.165	.062	-.006	-.068
7	*000.000	*000.000	*000.000	-.772	-.566	-.383	-.296
8	*000.000	*000.000	*000.000	-1.591	-1.571	-1.268	-.996
9	*000.000	*000.000	*000.000	-2.431	-2.606	-2.201	-1.544
10	-.450	-.585	-.766	-2.063	-1.885	-1.569	-1.141
11	-.555	-.865	*000.000	-1.284	-1.362	-1.055	-.701
12	-.882	-.642	-.746	-.584	-.915	-.659	-.373
13	-.443	-.679	-.666	-.654	-.743	-.586	-.428
14	-.534	-.685	-.669	-.671	-.743	-.562	-.401
15	-.086	-.383	.344	.411	.389	.480	.133
16	.053	.064	.079	.130	.076	.120	.026
17	-.537	-.737	-.436	-.550	-.797	-.454	-.373
18	-1.061	-1.211	-1.029	-1.068	-1.287	-1.123	-.815
19	-1.396	-1.657	-1.478	-1.284	-1.567	-1.142	-.881
20	-1.680	-1.854	-1.468	-1.481	-1.646	-1.608	-1.109
21	-1.409	-1.431	-1.133	-1.097	-1.270	-1.296	-.973
22	-1.339	-1.112	-.739	-.776	-.843	-1.060	-.924
23	-.840	-.175	-.162	-.178	-.082	-.363	-.611
24	-.558	-.108	-.200	-.073	-.084	-.083	-.175
25	.613	.521	.074	.717	.992	.853	.615
26	-.132	-.171	-.222	.182	*000.000	.009	.258
27	-.418	-.296	-.157	.725	.109	.144	-.129
28	-.169	-.054	.130	.788	.822	.644	.515
29	.040	.338	.411	.588	.600	.576	.459
30	.862	1.068	.600	.953	.965	.942	.674
31	1.052	1.182	.702	.980	1.047	1.126	.690
32	.598	.868	.605	.836	.879	.791	.939
33	.236	.526	.422	.619	.627	.568	.244

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.137	1.183	.687	-.103	.831	1.000	.413
2	.676	.754	.564	-.868	.100	.366	.064
3	.411	.460	.301	-.813	-.172	.212	-.154
4	-.005	.039	.045	-1.091	-.531	-.296	-.569
5	-.341	-.430	-.267	-1.029	-.724	-.594	-.732
6	*000.000	*000.000	*000.000	.140	.089	-.030	-.058
7	*000.000	*000.000	*000.000	-1.003	-.740	-.523	-.551
8	*000.000	*000.000	*000.000	-1.890	-1.874	-1.505	-1.281
9	*000.000	*000.000	*000.000	-2.510	-2.781	-2.345	-1.819
10	-.563	-.741	-.754	-2.199	-2.039	-1.742	-1.268
11	-.626	-.977	*000.000	-1.245	-1.406	-1.079	-.789
12	-1.046	-.809	-.743	-.609	-.943	-.706	-.530
13	-.572	-.778	-.691	-.643	-.748	-.613	-.406
14	-.668	-.792	-.676	-.624	-.721	-.604	-.495
15	.026	-.487	.459	.506	.421	.438	.037
16	.024	-.036	.138	.153	.078	.045	-.028
17	-.650	-.901	-.497	-.574	-.841	-.499	-.436
18	-1.256	-1.468	-1.063	-.992	-1.313	-1.254	-.853
19	-1.719	-1.947	-1.690	-1.183	-1.539	-1.215	-.997
20	-1.884	-2.033	-1.620	-1.181	-1.541	-1.460	-1.221
21	-1.788	-1.825	-1.379	-.898	-1.363	-1.341	-1.105
22	-1.567	-1.200	-.976	-.663	-.879	-1.030	-1.038
23	-1.090	-.268	-.166	-.181	-.142	-.363	-.726
24	-.595	-.196	-.105	.022	.123	-.090	-.123
25	.799	.832	.468	.686	1.081	.914	.471
26	.180	.220	.427	.214	*000.000	-.009	.131
27	-.294	-.117	.142	.927	.289	.055	-.117
28	-.156	.014	.267	.772	.861	.782	.392
29	.025	.363	.547	.671	.643	.531	.425
30	.883	1.174	.778	1.054	1.059	.996	.003
31	1.013	1.126	.836	.986	1.056	1.108	.644
32	.616	.838	.810	.921	.906	.858	.910
33	.229	.506	.550	.644	.655	.522	.150

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.109	1.121	.647	-.447	.478	.789	.079
2	.515	.466	.226	-1.283	-.273	.022	-.423
3	.204	.208	.070	-1.460	-.651	-.272	-.516
4	-.187	-.293	-.390	-1.574	-.976	-.691	-.918
5	-.571	-.703	-.612	-1.300	-1.003	-.903	-.903
6	*000.000	*000.000	*000.000	.171	.294	-.063	-.179
7	*000.000	*000.000	*000.000	-1.391	-1.152	-.924	-.809
8	*000.000	*000.000	*000.000	-2.134	-2.139	-1.733	-1.415
9	*000.000	*000.000	*000.000	-2.793	-3.158	-2.638	-1.940
10	-.597	-.892	-1.058	-2.171	-2.130	-1.859	-1.289
11	-.678	-1.100	*000.000	-1.352	-1.561	-1.257	-.809
12	-1.085	-.822	-.961	-.620	-.923	-.719	-.403
13	-.700	-.847	-.853	-.660	-.700	-.666	-.383
14	-.856	-.890	-.893	-.659	-.732	-.664	-.464
15	-.055	-.538	.361	.530	.449	.414	.057
16	-.042	-.058	.038	.158	.078	.014	-.032
17	-.478	-1.049	-.753	-.565	-.812	-.554	-.399
18	-1.496	-1.612	-1.418	-1.018	-1.231	-1.175	-.819
19	-2.105	-2.242	-2.048	-1.294	-1.622	-1.272	-.926
20	-2.373	-2.345	-1.934	-1.168	-1.573	-1.405	-1.079
21	-2.276	-2.059	-1.726	-.848	-1.239	-1.249	-.973
22	-1.951	-1.338	-1.070	-.621	-.749	-.905	-.852
23	-1.251	-.278	-.322	-.180	-.128	-.392	-.484
24	-.701	-.213	-.186	-.010	.049	-.046	-.034
25	.961	1.184	.860	.745	1.119	1.012	.386
26	.339	.563	.669	.237	*000.000	-.206	.140
27	-.176	.080	.195	1.019	.727	.036	.147
28	-.103	.121	.151	.849	.821	.662	.542
29	.023	.377	.404	.673	.630	.491	.418
30	.826	1.168	.817	.994	.946	.975	.047
31	.946	1.141	.903	1.000	.989	1.015	.551
32	.604	.870	.750	.945	.902	.840	.934
33	.249	.533	.556	.702	.652	.532	.214

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.032	.985	.437	-.623	.427	.881	-.415
2	.309	.190	.003	-1.576	-.494	-.017	-.720
3	-.007	-.174	-.231	-1.606	-.767	-.220	-.839
4	-.475	-.608	-.475	-1.780	-1.129	-.818	-1.059
5	-.760	-1.003	-.770	-1.522	-1.146	-.875	-1.010
6	*000.000	*000.000	*000.000	.162	.364	.080	-.102
7	*000.000	*000.000	*000.000	-1.317	-1.036	-.613	-.515
8	*000.000	*000.000	*000.000	-2.103	-2.032	-1.369	-.946
9	*000.000	*000.000	*000.000	-2.841	-3.060	-2.292	-1.349
10	-.744	-1.037	-1.092	-2.176	-2.035	-1.311	-.499
11	-.748	-1.137	*000.000	-1.145	-.956	-.513	-.478
12	-1.103	-.883	-.794	-.607	-.500	-.523	-.430
13	-.792	-.929	-.843	-.522	-.532	-.514	-.463
14	-.987	-.952	-.795	-.582	-.515	-.492	-.331
15	-.097	-.530	.323	.485	.419	.473	.090
16	-.212	-.093	.061	.177	.080	.161	-.001
17	-.957	-1.090	-.629	-.450	-.504	-.300	-.361
18	-1.608	-1.685	-1.220	-.696	-.639	-.552	-.615
19	-2.334	-2.357	-1.990	-.949	-.874	-.579	-.497
20	-2.751	-2.546	-2.110	-1.078	-.906	-.496	-.462
21	-2.689	-2.231	-1.778	-.855	-.966	-.529	-.432
22	-2.407	-1.704	-1.251	-.660	-.564	-.342	-.402
23	-1.356	-.414	-.318	-.285	-.274	-.273	-.337
24	-.855	-.266	-.186	-.129	-.186	-.241	-.321
25	1.028	1.155	.774	.686	1.091	1.063	-.100
26	.522	.799	.858	.259	*000.000	-.144	.061
27	-.144	.190	.404	.974	.733	-.008	.024
28	-.123	.148	.319	.782	.802	.659	.354
29	-.030	.403	.563	.653	.617	.551	.322
30	.756	1.154	1.018	1.003	.935	1.014	.017
31	.918	1.122	1.105	.986	1.022	1.072	.495
32	.516	.806	.893	.879	.831	.873	.808
33	.215	.546	.631	.646	.565	.458	.034

Table 10. - Continued.

(b) $C_{T,S} = 0.80$, $q_s = 20.00$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.918	.788	.331	-.776	.221	.714	-.715
2	.103	-.092	-.426	-1.860	-.722	-.191	-.911
3	-.202	-.452	-.671	-1.935	-1.190	-.667	-1.196
4	-.621	-.898	-.795	-2.106	-1.374	-1.015	-1.202
5	-.919	-1.211	-.975	-1.826	-1.400	-1.111	-1.042
6	*000.000	*000.000	*000.000	.166	.246	.048	-.104
7	*000.000	*000.000	*000.000	-1.582	-1.308	-.761	-.524
8	*000.000	*000.000	*000.000	-2.450	-2.473	-1.688	-1.000
9	*000.000	*000.000	*000.000	-3.047	-3.246	-2.246	-.828
10	-.906	-1.145	-1.136	-2.196	-2.039	-1.206	-.404
11	-.862	-1.211	*000.000	-1.234	-1.038	-.507	-.285
12	-1.149	-.954	-.772	-.613	-.393	-.399	-.365
13	-.867	-.921	-.720	-.476	-.428	-.385	-.302
14	-1.173	-1.023	-.814	-.560	-.573	-.458	-.407
15	-.218	-.486	.331	.518	.443	.413	.005
16	-.321	-.138	.147	.229	.044	.110	-.016
17	-1.076	-1.113	-.703	-.417	-.562	-.329	-.282
18	-2.089	-1.950	-1.588	-.804	-.744	-.638	-.530
19	-2.772	-2.604	-2.233	-.889	-.867	-.772	-.526
20	-3.057	-2.614	-2.030	-.722	-.592	-.397	-.368
21	-3.074	-2.452	-1.855	-.763	-.675	-.486	-.438
22	-2.622	-1.697	-1.351	-.558	-.577	-.398	-.369
23	-1.461	-.477	-.270	-.365	-.407	-.372	-.409
24	-.970	-.222	-.063	-.182	-.287	-.270	-.275
25	1.074	1.213	.934	.650	1.061	1.099	-.179
26	.585	.968	1.026	.339	*000.000	-.101	.062
27	-.094	.354	.535	1.016	.725	.361	.139
28	-.105	.224	.319	.805	.815	.613	.239
29	-.045	.446	.542	.709	.603	.463	.360
30	.788	1.253	1.214	1.070	.979	.987	-.016
31	.858	1.164	1.090	1.083	.995	1.070	.436
32	.525	.869	.913	.929	.837	.845	.777
33	.182	.584	.663	.677	.560	.441	.131

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.720	.502	.019	-1.022	.015	.475	-.928
2	-.146	-.522	-.896	-2.364	-1.097	-.526	-1.139
3	-.461	-.887	-1.085	-2.513	-1.547	-.963	-1.189
4	-.847	-1.271	-1.395	-2.528	-1.658	-1.232	-1.089
5	-1.086	-1.537	-1.372	-2.012	-1.502	-1.169	-.885
6	*000.000	*000.000	*000.000	.138	.187	.081	-.136
7	*000.000	*000.000	*000.000	-1.711	-1.417	-.752	-.476
8	*000.000	*000.000	*000.000	-2.583	-2.513	-1.538	-.769
9	*000.000	*000.000	*000.000	-3.044	-3.401	-2.100	-.868
10	-.989	-1.360	-1.404	-2.157	-2.052	-1.168	-.427
11	-.970	-1.388	*000.000	-1.327	-1.090	-.488	-.389
12	-1.284	-1.070	-.969	-.586	-.449	-.517	-.412
13	-1.100	-1.095	-.838	-.600	-.514	-.362	-.390
14	-1.435	-1.231	-.913	-.547	-.516	-.301	-.335
15	-.361	-.550	.356	.575	.430	.497	-.110
16	-.471	-.203	.071	.258	.136	.263	-.088
17	-1.361	-1.343	-.782	-.458	-.562	-.182	-.321
18	-2.233	-2.124	-1.681	-.807	-.773	-.454	-.493
19	-3.083	-2.825	-2.275	-1.260	-.958	-.604	-.412
20	-3.540	-2.975	-2.362	-.897	-.616	-.583	-.609
21	-3.414	-2.680	-2.094	-.867	-.758	-.504	-.426
22	-2.850	-1.976	-1.542	-.517	-.529	-.375	-.435
23	-1.437	-.572	-.364	-.436	-.387	-.379	-.402
24	-1.132	-.329	-.154	-.264	-.293	-.243	-.381
25	1.119	1.281	.950	.531	1.089	.997	-.427
26	.686	1.004	1.016	.399	*000.000	.004	.021
27	-.028	.437	.707	1.042	.758	.409	.132
28	-.092	.238	.397	.906	.805	.553	.180
29	-.074	.390	.530	.694	.580	.483	.288
30	.645	1.162	1.130	1.033	.928	.920	0.
31	.779	1.113	1.060	1.036	.939	1.080	.223
32	.492	.863	.943	.938	.834	.814	.668
33	.224	.557	.699	.697	.547	.497	.049

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.688	.305	-.421	-1.430	-.242	-.208	-1.194
2	-.288	-.857	-1.295	-2.702	-1.337	-1.037	-1.204
3	-.606	-1.197	-1.360	-2.642	-1.594	-1.354	-.968
4	-1.109	-1.648	-1.690	-2.815	-1.942	-1.631	-.898
5	-1.243	-1.718	-1.570	-2.163	-1.712	-1.473	-.758
6	*000.000	*000.000	*000.000	.093	.167	.088	-.104
7	*000.000	*000.000	*000.000	-1.799	-1.461	-.847	-.414
8	*000.000	*000.000	*000.000	-2.752	-2.672	-1.642	-.705
9	*000.000	*000.000	*000.000	-2.566	-2.786	-1.536	-.241
10	-1.032	-1.390	-1.410	-1.485	-1.530	-.550	-.225
11	-1.023	-1.412	*000.000	-.939	-.793	-.497	-.367
12	-1.253	-1.084	-.872	-.465	-.352	-.303	-.370
13	-1.238	-1.181	-.905	-.405	-.426	-.193	-.282
14	-1.567	-1.252	-.900	-.398	-.363	-.427	-.343
15	-.480	-.567	.310	.595	.433	.445	-.070
16	-.570	-.232	.065	.274	.244	.127	-.061
17	-1.516	-1.388	-.720	-.410	-.684	-.159	-.267
18	-2.466	-2.293	-1.747	-.854	-.786	-.602	-.544
19	-3.240	-2.884	-2.182	-.789	-.811	-.727	-.474
20	-4.012	-3.343	-2.477	-.742	-.930	-.764	-.741
21	-3.831	-3.050	-2.256	-.806	-.671	-.281	-.446
22	-2.978	-2.117	-1.586	-.502	-.453	-.350	-.347
23	-1.477	-.675	-.453	-.339	-.291	-.383	-.312
24	-1.175	-.361	-.155	-.237	-.339	-.217	-.247
25	1.110	1.239	.770	.439	1.032	.628	-.581
26	.739	1.141	1.110	.546	*000.000	-.072	.034
27	.009	.562	.732	1.077	.809	.199	.095
28	-.062	.273	.444	.892	.829	.516	.248
29	-.090	.420	.584	.713	.594	.433	.246
30	.604	1.178	1.111	1.081	.971	.742	-.023
31	.755	1.166	1.173	1.144	1.037	1.119	.207
32	.423	.866	.911	.936	.808	.946	.619
33	.163	.532	.657	.705	.546	.470	.160

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.523	.132	-.699	-1.421	-.341	-.774	-1.227
2	-.481	-.989	-1.411	-2.546	-1.255	-1.394	-1.378
3	-.795	-1.296	-1.432	-2.416	-1.587	-1.410	-.960
4	-1.185	-1.626	-1.638	-2.454	-1.678	-1.451	-.631
5	-1.445	-1.936	-1.808	-2.127	-1.700	-1.474	-.537
6	*000.000	*000.000	*000.000	.190	.280	-.034	-.071
7	*000.000	*000.000	*000.000	-1.496	-1.278	-.807	-.350
8	*000.000	*000.000	*000.000	-2.103	-2.224	-1.299	-.267
9	*000.000	*000.000	*000.000	-1.384	-2.371	-1.289	-.358
10	-1.208	-1.480	-1.516	-1.151	-1.437	-.708	-.226
11	-1.208	-1.461	*000.000	-.970	-.573	-.486	-.168
12	-1.217	-1.084	-.848	-.350	-.245	-.370	-.168
13	-1.318	-1.099	-.762	-.304	-.279	-.278	-.305
14	-1.761	-1.289	-.901	-.393	-.309	-.397	-.241
15	-.570	-.505	.312	.569	.512	.514	-.045
16	-.753	-.220	.093	.257	.150	.042	-.131
17	-1.619	-1.355	-.665	-.374	-.473	-.313	-.298
18	-2.545	-2.252	-1.525	-.741	-.551	-.589	-.262
19	-3.659	-3.033	-2.345	-1.010	-.807	-.673	-.427
20	-4.006	-3.288	-2.373	-.473	-.428	-.429	-.458
21	-3.698	-2.912	-2.079	-.438	-.354	-.384	-.387
22	-2.960	-2.169	-1.582	-.411	-.362	-.503	-.410
23	-1.321	-.689	-.632	-.376	-.312	-.390	-.315
24	-1.235	-.244	-.069	-.294	-.183	-.285	-.248
25	1.099	1.213	.652	.471	1.062	-.037	-.626
26	.733	1.180	1.107	.501	*000.000	-.035	.007
27	.005	.625	.789	1.090	.856	.313	.131
28	-.137	.324	.443	.860	.821	.349	.291
29	-.168	.433	.549	.718	.586	.378	.248
30	.517	1.179	1.162	1.080	.929	.801	.018
31	.651	1.239	1.157	1.100	1.007	1.069	-.009
32	.378	.890	.943	.891	.770	.713	.412
33	.114	.542	.670	.588	.494	.343	.124

Table 10. - Continued.

(b) $C_{T,S} = 0.80$, $q_S = 20.00$

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.345	-.166	-.858	-1.493	-.457	-1.082	-1.337
2	-.701	-1.289	-1.720	-2.635	-1.697	-1.623	-.947
3	-1.085	-1.663	-1.888	-2.742	-2.000	-1.834	-.866
4	-1.549	-2.031	-1.999	-2.802	-2.194	-1.579	-.645
5	-1.786	-2.208	-1.965	-2.221	-1.861	-1.471	-.606
6	*000.000	*000.000	*000.000	.192	.193	.050	-.028
7	*000.000	*000.000	*000.000	-1.151	-1.009	-.613	-.361
8	*000.000	*000.000	*000.000	-1.856	-1.922	-.857	-.296
9	*000.000	*000.000	*000.000	-1.865	-2.667	-1.091	-.275
10	-1.436	-1.728	-1.735	-1.265	-1.209	-.374	-.231
11	-1.235	-1.417	*000.000	-.548	-.240	-.186	-.193
12	-1.308	-1.216	-.880	-.291	-.364	-.199	-.201
13	-1.503	-1.272	-.892	-.416	-.558	-.231	-.241
14	-1.849	-1.316	-.767	-.370	-.319	-.278	-.335
15	-.674	-.560	.331	.551	.434	.548	-.212
16	-.809	-.268	.132	.327	.219	.196	-.056
17	-1.798	-1.553	-.761	-.277	-.313	-.075	-.220
18	-2.754	-2.371	-1.540	-.620	-.653	-.347	-.440
19	-3.928	-3.318	-2.280	-.862	-.700	-.416	-.414
20	-3.924	-3.018	-1.725	-.453	-.328	-.339	-.458
21	-3.563	-2.814	-1.793	-.431	-.328	-.210	-.304
22	-2.744	-2.262	-1.784	-.499	-.379	-.282	-.419
23	-1.279	-.749	-.506	-.268	-.277	-.263	-.322
24	-1.129	-.397	-.137	-.278	-.282	-.239	-.280
25	1.055	1.071	.536	.473	.985	-.222	-.711
26	.675	1.163	1.111	.479	*000.000	-.015	.065
27	-.048	.653	.837	1.069	1.149	.528	-.093
28	-.147	.303	.431	.798	.725	.325	.091
29	-.236	.392	.537	.706	.508	.350	.185
30	.414	1.124	1.119	1.053	.894	.765	-.057
31	.518	1.105	1.089	1.015	.902	.989	-.135
32	.323	.838	.927	.908	.729	.728	.293
33	.069	.483	.650	.599	.478	.395	.034

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.317	-.260	-1.075	-1.525	-.773	-1.282	-.977
2	-.904	-1.549	-2.073	-2.949	-2.056	-1.666	-.539
3	-1.221	-2.000	-2.257	-3.127	-2.544	-1.147	-.435
4	-1.723	-2.284	-2.407	-3.163	-2.507	-.827	-.504
5	-1.964	-2.429	-2.158	-2.524	-2.268	-.705	-.621
6	*000.000	*000.000	*000.000	.060	.088	-.158	-.040
7	*000.000	*000.000	*000.000	-1.645	-1.225	-.297	-.264
8	*000.000	*000.000	*000.000	-2.459	-2.541	-.892	-.262
9	*000.000	*000.000	*000.000	-2.570	-2.790	-.632	-.157
10	-1.468	-1.650	-1.564	-1.188	-1.241	-.220	-.188
11	-1.416	-1.626	*000.000	-.925	-.402	-.084	-.100
12	-1.410	-1.327	-.936	-.364	-.292	-.153	-.181
13	-1.573	-1.337	-.855	-.501	-.338	-.180	-.204
14	-1.853	-1.373	-.805	-.451	-.268	-.190	-.217
15	-.722	-.522	.353	.449	.353	.424	-.104
16	-.941	-.306	.150	.216	.080	.200	-.066
17	-1.800	-1.555	-.701	-.378	-.510	-.213	-.229
18	-2.770	-2.501	-1.563	-.830	-.526	-.344	-.224
19	-3.550	-3.057	-2.170	-.998	-.584	-.323	-.233
20	-3.794	-3.070	-1.669	-.644	-.364	-.197	-.217
21	-3.412	-2.938	-2.012	-.751	-.497	-.302	-.366
22	-2.565	-2.288	-1.684	-.499	-.322	-.267	-.185
23	-1.083	-.723	-.640	-.322	-.143	-.189	-.224
24	-1.160	-.496	-.053	-.255	-.173	-.079	-.182
25	1.006	1.033	.519	.464	.903	-.464	-.503
26	.681	1.199	1.137	.370	*000.000	-.018	.026
27	-.076	.722	.918	1.112	1.175	.491	.001
28	-.181	.289	.449	.803	.655	.284	.154
29	-.264	.387	.555	.647	.471	.302	.205
30	.421	1.139	1.161	1.070	.817	.705	-.279
31	.553	1.120	1.164	1.041	.949	.871	-.054
32	.315	.790	.935	.748	.645	.634	.221
33	.069	.468	.671	.451	.396	.361	.112

$\alpha = 65°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.046	-.484	-1.366	-1.616	-1.349	-1.424	-.467
2	-1.172	-1.867	-2.427	-3.169	-2.371	-.868	-.582
3	-1.429	-2.119	-2.386	-3.206	-2.557	-.564	-.558
4	-1.926	-2.405	-2.439	-3.165	-2.690	-.578	-.485
5	-2.048	-2.371	-1.971	-2.373	-1.864	-.371	-.324
6	*000.000	*000.000	*000.000	.038	.029	-.149	-.153
7	*000.000	*000.000	*000.000	-1.435	-1.083	-.511	-.322
8	*000.000	*000.000	*000.000	-2.438	-2.122	-.400	-.218
9	*000.000	*000.000	*000.000	-2.387	-2.713	-.595	-.170
10	-1.637	-1.772	-1.614	-1.288	-.927	-.136	-.105
11	-1.522	-1.616	*000.000	-.865	-.378	-.089	-.177
12	-1.275	-1.247	-.866	-.325	-.266	-.168	-.161
13	-1.549	-1.249	-.826	-.384	-.284	-.171	-.219
14	-1.882	-1.368	-.776	-.316	-.272	-.180	-.266
15	-.872	-.544	.353	.465	.338	.336	-.230
16	-.818	-.291	.139	.209	.145	.075	-.151
17	-1.640	-1.506	-.719	-.335	-.300	-.203	-.279
18	-2.567	-2.285	-1.471	-.716	-.561	-.305	-.215
19	-3.335	-2.980	-2.110	-.718	-.504	-.330	-.300
20	-3.735	-3.140	-2.213	-.780	-.502	-.407	-.360
21	-3.558	-2.871	-1.997	-.502	-.440	-.354	-.365
22	-2.513	-2.188	-1.731	-.612	-.411	-.398	-.431
23	-1.073	-.709	-.633	-.484	-.284	-.251	-.365
24	-1.061	-.264	-.083	-.253	-.235	-.240	-.263
25	.955	1.020	.325	.529	.542	-.616	-.458
26	.671	1.173	1.099	.362	*000.000	.189	-.034
27	-.102	.765	.916	1.100	.945	.458	.013
28	-.260	.311	.504	.814	.592	.228	.130
29	-.211	.350	.526	.631	.378	.278	.161
30	.271	1.098	1.077	1.040	.741	.591	-.104
31	.414	1.113	1.121	.835	.823	.626	-.060
32	.214	.803	.921	.677	.575	.573	.257
33	.047	.471	.666	.392	.358	.304	.060

$\alpha = 70°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.014	-.569	-1.477	-1.728	-1.769	-1.077	-.325
2	-1.282	-1.931	-2.428	-3.065	-2.568	-.217	-.262
3	-1.617	-2.303	-2.566	-3.236	-2.998	-.584	-.612
4	-2.108	-2.472	-2.427	-3.027	-2.433	-.377	-.397
5	-2.252	-2.572	-2.158	-2.506	-1.934	-.442	-.495
6	*000.000	*000.000	*000.000	.032	-.051	-.045	-.049
7	*000.000	*000.000	*000.000	-1.672	-1.063	-.384	-.331
8	*000.000	*000.000	*000.000	-2.401	-1.427	-.368	-.220
9	*000.000	*000.000	*000.000	-1.874	-2.220	-.500	-.141
10	-1.721	-1.774	-1.575	-1.217	-.603	-.176	-.053
11	-1.574	-1.643	*000.000	-.637	-.293	-.180	-.150
12	-1.358	-1.375	-.933	-.340	-.343	-.176	-.165
13	-1.617	-1.355	-.833	-.361	-.275	-.179	-.229
14	-1.765	-1.362	-.858	-.364	-.266	-.190	-.250
15	-.753	-.548	.336	.223	.286	.291	-.128
16	-.789	-.336	.116	.069	.140	.153	-.046
17	-1.671	-1.502	-.721	-.348	-.426	-.235	-.258
18	-2.379	-2.148	-1.361	-.596	-.496	-.405	-.241
19	-3.338	-2.855	-1.926	-.403	-.361	-.444	-.257
20	-3.273	-2.760	-1.978	-.508	-.448	-.332	-.257
21	-3.000	-2.549	-1.666	-.501	-.437	-.343	-.318
22	-2.381	-1.930	-1.370	-.372	-.445	-.432	-.448
23	-1.001	-.683	-.650	-.341	-.397	-.372	-.389
24	-1.068	-.276	-.049	-.283	-.304	-.288	-.223
25	.904	.945	.169	.456	-.354	-.511	-.469
26	.593	1.163	1.052	.277	*000.000	.173	-.004
27	-.091	.718	.856	1.065	.806	.377	.018
28	-.237	.309	.443	.771	.412	.177	.146
29	-.306	.344	.493	.568	.277	.249	.168
30	.394	1.210	1.139	.957	.609	.547	-.185
31	.475	1.115	1.118	.742	.716	.519	-.103
32	.256	.782	.904	.703	.446	.471	.105
33	.040	.468	.632	.459	.293	.302	.059

Table 10.- Continued.

(c) $C_{T,s} = 0.60$, $q_s = 21.45$

$\alpha = 5^\circ$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.137	1.139	.668	.623	1.143	1.138	.917
2	.910	.988	.489	.607	.959	.993	.765
3	.661	.733	.274	.496	.725	.782	.575
4	.305	.250	-.073	.153	.429	.505	.276
5	-.140	-.220	-.376	.022	.090	.170	.082
6	.000,000	.000,000	.000,000	-.059	.038	.079	-.023
7	.000,000	.000,000	.000,000	.072	-.030	.213	.281
8	.000,000	.000,000	.000,000	-1.083	-1.126	-.826	-.747
9	.000,000	.000,000	.000,000	-1.984	-2.081	-1.790	-1.436
10	-.447	-.636	-.833	-1.907	-1.786	-1.530	-1.234
11	-.602	-.912	.000,000	-1.319	-1.417	-1.128	-.897
12	-.958	-.762	-.739	-.756	-.986	-.732	-.621
13	-.459	-.698	-.619	-.675	-.773	-.672	-.480
14	-.558	-.714	-.629	-.690	-.801	-.680	-.515
15	-.071	-.157	.212	.374	.330	.343	.004
16	.104	.028	.111	.115	.031	.018	-.052
17	-.520	-.712	-.379	-.527	-.775	-.522	-.423
18	-1.020	-1.223	-.827	-1.047	-1.286	-1.192	-.827
19	-1.612	-1.750	-1.302	-1.484	-1.703	-1.281	-1.118
20	-1.836	-1.863	-1.311	-1.510	-1.716	-1.826	-1.372
21	-1.685	-1.509	-.935	-1.178	-1.370	-1.323	-1.146
22	-1.216	-.831	-.378	.628	-.709	-1.028	-.915
23	-.742	-.175	-.165	-.183	-.156	-.318	-.673
24	-.574	-.147	-.159	-.158	-.194	-.241	-.320
25	.453	.404	.142	.256	.509	.431	.334
26	-.186	-.327	.045	-.157	.000,000	.009	.279
27	-.503	-.423	-.126	.035	.151	.114	.011
28	-.221	-.139	.111	.415	.052	.044	.064
29	.085	.243	.250	.475	.551	.457	.280
30	.793	1.024	.363	.680	.734	.623	.098
31	.984	1.027	.407	.821	.856	.689	.607
32	.597	.705	.541	.771	.858	.859	.732
33	.288	.480	.336	.563	.623	.591	.451

$\alpha = 10^\circ$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.124	1.171	.371	.349	1.068	1.117	.880
2	.598	.668	.031	.023	.623	.812	.637
3	.395	.470	-.089	-.172	.405	.650	.513
4	-.029	-.051	-.416	-.302	.029	.119	.048
5	-.360	-.467	-.584	-.470	-.356	-.241	-.210
6	.000,000	.000,000	.000,000	.035	.010	.027	.028
7	.000,000	.000,000	.000,000	-.740	-.569	-.428	-.336
8	.000,000	.000,000	.000,000	-1.587	-1.578	-1.380	-1.273
9	.000,000	.000,000	.000,000	-2.377	-2.534	-2.218	-1.866
10	-.685	-.899	-1.077	-2.312	-2.106	-1.880	-1.496
11	-.753	-1.118	.000,000	-1.526	-1.640	-1.379	-1.107
12	-1.140	-.793	-.814	-.736	-1.040	-.873	-.688
13	-.613	-.815	-.742	-.741	-.876	-.767	-.524
14	-.759	-.791	-.659	-.694	-.833	-.756	-.575
15	-.037	-.296	.393	.457	.371	.375	-.052
16	-.002	-.013	.077	.093	.031	-.001	-.120
17	-.739	-.894	-.475	-.612	-.945	-.659	-.553
18	-1.406	-1.463	-1.107	-1.113	-1.484	-1.489	-1.002
19	-1.925	-1.941	-1.550	-1.534	-1.871	-1.461	-1.157
20	-2.090	-1.913	-1.424	-1.498	-1.686	-1.736	-1.265
21	-1.968	-1.605	-1.136	-1.133	-1.439	-1.437	-1.060
22	-1.655	-.948	-.638	-.765	-.847	-1.139	-.957
23	-.997	-.240	-.182	-.166	-.085	-.348	-.738
24	-.799	-.198	-.236	-.089	-.125	-.184	-.354
25	.736	.821	.369	.551	.811	.710	.636
26	.095	.104	.331	-.037	.000,000	-.078	.222
27	-.326	-.151	.137	.401	.124	.051	.034
28	-.182	.003	.218	.606	.793	.289	.551
29	.067	.319	.390	.509	.565	.551	.400
30	.771	1.044	.599	.915	.945	.918	.007
31	.892	1.107	.623	.965	1.018	1.001	.687
32	.585	.778	.599	.835	.871	.815	.824
33	.299	.510	.436	.629	.637	.555	.038

$\alpha = 15^\circ$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.029	1.055	.065	.047	.878	.999	.772
2	.384	.312	-.346	-.614	.185	.405	.239
3	.087	-.038	-.513	-.765	-.100	.148	.087
4	-.367	-.553	-.891	-1.045	-.532	-.297	-.303
5	-.735	-.960	-1.120	-.981	-.773	-.614	-.607
6	.000,000	.000,000	.000,000	.069	.041	.026	-.076
7	.000,000	.000,000	.000,000	-1.140	-.977	-.791	-.750
8	.000,000	.000,000	.000,000	-2.032	-2.053	-1.702	-1.519
9	.000,000	.000,000	.000,000	-3.112	-3.306	-2.900	-2.438
10	-.791	-1.025	-1.214	-2.435	-2.264	-1.983	-1.673
11	-.839	-1.179	.000,000	-1.471	-1.684	-1.419	-1.182
12	-1.238	-.907	-.851	-.756	-1.077	-.912	-.718
13	-.740	-.896	-.804	-.735	-.864	-.783	-.569
14	-.954	-.952	-.830	-.763	-.894	-.762	-.662
15	-.062	-.386	.403	.453	.395	.365	-.088
16	-.164	-.026	.073	.120	.009	-.021	-.109
17	-.919	-.968	-.587	-.550	-.854	-.653	-.533
18	-1.666	-1.632	-1.274	-1.155	-1.424	-1.405	-.970
19	-2.454	-2.225	-1.876	-1.544	-1.907	-1.602	-1.285
20	-2.655	-2.313	-1.910	-1.453	-1.888	-1.940	-1.559
21	-2.614	-1.987	-1.524	-1.139	-1.426	-1.488	-1.275
22	-2.322	-1.434	-1.052	-.867	-.963	-1.223	-1.101
23	-1.387	-.280	-.260	-.201	-.124	-.417	-.745
24	-.881	-.294	-.217	-.040	-.011	-.106	-.357
25	.939	1.089	.439	.644	1.018	.954	.721
26	.457	.654	.643	.205	.000,000	-.113	.116
27	-.119	.133	.359	.773	.572	-.033	.017
28	-.063	.140	.360	.735	.810	.857	.569
29	.055	.440	.513	.645	.632	.586	.405
30	.755	1.153	.819	.961	.960	1.004	-.023
31	.880	1.135	.774	.978	.994	1.052	.664
32	.592	.819	.628	.837	.858	.824	.773
33	.261	.617	.561	.670	.645	.556	.084

$\alpha = 20^\circ$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.823	.725	-.478	-.665	.266	.681	.432
2	-.033	-.352	-1.222	-1.506	-.564	-.062	-.112
3	-.298	-.556	-1.138	-1.672	-.931	-.462	-.403
4	-.721	-1.150	-1.508	-1.722	-1.303	-.975	-.943
5	-.921	-1.410	-1.556	-1.575	-1.361	-1.196	-1.081
6	.000,000	.000,000	.000,000	.056	.122	-.040	-.246
7	.000,000	.000,000	.000,000	-1.690	-1.478	-1.223	-1.119
8	.000,000	.000,000	.000,000	-2.620	-2.686	-2.393	-2.097
9	.000,000	.000,000	.000,000	-3.360	-3.735	-3.302	-2.732
10	-.976	-1.352	-1.519	-2.815	-2.612	-2.431	-1.998
11	-.935	-1.366	.000,000	-1.617	-1.813	-1.574	-1.215
12	-1.472	-1.081	-1.071	-.883	-1.171	-.992	-.792
13	-.956	-1.035	-.995	-.689	-.946	-.834	-.655
14	-1.057	-.981	-.891	-.757	-.831	-.735	-.592
15	-.183	-.474	.343	.489	.435	.362	-.036
16	-.296	-.139	.066	.109	.008	-.061	-.063
17	-1.200	-1.183	-.724	-.700	-.963	-.748	-.517
18	-1.947	-1.878	-1.489	-1.166	-1.406	-1.468	-.985
19	-2.837	-2.461	-2.116	-1.445	-1.733	-1.517	-.995
20	-3.268	-2.587	-2.149	-1.392	-1.700	-1.687	-1.334
21	-3.198	-2.192	-1.812	-1.073	-1.333	-1.210	-1.009
22	-2.899	-1.656	-1.400	-.800	-.898	-1.099	-.973
23	-1.397	-.408	-.280	-.254	-.175	-.443	-.662
24	-1.207	-.263	-.196	-.037	-.003	-.126	-.339
25	1.233	1.324	.492	.586	1.107	1.162	.778
26	.682	.987	.818	.167	.000,000	-.320	.109
27	.096	.437	.556	1.001	.821	.518	.826
28	.002	.235	.436	.786	.828	.729	.508
29	.046	.509	.541	.694	.679	.577	.449
30	.725	1.241	.943	.964	.985	.999	-.015
31	.871	1.146	.944	1.003	1.015	1.015	.633
32	.587	.868	.828	.898	.862	.802	.827
33	.322	.615	.599	.706	.703	.589	.176

$\alpha = 25^\circ$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.600	.231	-.965	-1.178	-.207	.389	-.202
2	-.374	-.780	-1.483	-1.943	-1.085	-.471	-.724
3	-.662	-1.212	-1.804	-2.302	-1.506	-.761	-.894
4	-1.154	-1.743	-2.013	-2.209	-1.537	-1.074	-.969
5	-1.374	-1.931	-1.974	-2.144	-1.725	-1.267	-1.105
6	.000,000	.000,000	.000,000	.073	.193	-.020	-.128
7	.000,000	.000,000	.000,000	-1.690	-1.547	-1.208	-1.090
8	.000,000	.000,000	.000,000	-2.884	-3.006	-2.444	-2.017
9	.000,000	.000,000	.000,000	-3.657	-4.062	-3.176	-2.162
10	-1.170	-1.575	-1.668	-2.718	-2.584	-2.104	-1.412
11	-1.162	-1.655	.000,000	-1.769	-1.897	-1.378	-1.008
12	-1.567	-1.217	-1.127	-.909	-1.058	-.793	-.751
13	-1.062	-1.132	-1.001	-.775	-.697	-.700	-.561
14	-1.414	-1.214	-1.031	-.803	-.751	-.735	-.679
15	-.349	-.554	.333	.500	.434	.399	.012
16	-.468	-.175	.051	.129	.013	.118	-.139
17	-1.390	-1.273	-.800	-.604	-.787	-.507	-.444
18	-2.335	-2.096	-1.622	-1.176	-1.216	-.945	-.793
19	-3.333	-2.745	-2.318	-1.512	-1.410	-1.104	-.672
20	-3.821	-2.915	-2.356	-1.146	-.928	-.600	-.651
21	-3.804	-2.623	-2.054	-1.017	-.938	-.598	-.616
22	-3.235	-1.816	-1.358	-.851	-.791	-.550	-.551
23	-1.601	-.456	-.307	-.275	-.390	-.369	-.399
24	-1.371	-.325	-.199	-.046	-.116	-.263	-.335
25	1.185	1.201	.319	.521	1.000	1.138	.333
26	.901	1.175	.954	.410	.000,000	-.177	.087
27	.256	.606	.785	1.061	.801	.731	.582
28	.060	.336	.509	.796	.789	.668	.405
29	.025	.483	.618	.735	.687	.584	.386
30	.660	1.143	1.057	.978	.947	.965	-.089
31	.801	1.216	1.093	1.048	1.079	1.122	.551
32	.570	.917	.926	1.065	.883	.846	.781
33	.275	.609	.678	.727	.638	.502	.054

$\alpha = 30^\circ$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.320	-.132	-1.389	-1.459	-.327	.367	-.448
2	-.740	-1.392	-2.146	-2.497	-1.466	-.722	-.889
3	-1.091	-1.773	-2.315	-2.692	-1.783	-1.048	-1.009
4	-1.477	-2.172	-2.446	-2.625	-1.873	-1.314	-1.106
5	-1.641	-2.197	-2.114	-2.158	-1.693	-1.324	-1.000
6	.000,000	.000,000	.000,000	.114	.205	.033	.041
7	.000,000	.000,000	.000,000	-1.997	-1.684	-1.169	-.878
8	.000,000	.000,000	.000,000	-2.966	-2.969	-2.074	-1.391
9	.000,000	.000,000	.000,000	-3.877	-3.456	-2.488	-1.311
10	-1.254	-1.734	-1.813	-2.380	-2.261	-1.495	-.647
11	-1.233	-1.676	.000,000	-1.459	-1.201	-.691	-.588
12	-1.544	-1.265	-1.156	-.774	-.545	-.568	-.501
13	-1.276	-1.284	-.997	-.631	-.566	-.581	-.509
14	-1.582	-1.283	-1.014	-.669	-.767	-.574	-.509
15	-.491	-.572	.329	.576	.467	.427	-.015
16	-.664	-.215	.039	.248	.148	.065	-.108
17	-1.652	-1.479	-.866	-.676	-.572	-.385	-.393
18	-2.582	-2.223	-1.745	-1.015	-1.013	-.816	-.673
19	-3.513	-2.880	-2.322	-.991	-.884	-.780	-.665
20	-4.437	-3.254	-2.579	-.952	-.788	-.666	-.663
21	-4.130	-2.814	-2.119	-.777	-.776	-.563	-.523
22	-3.810	-2.331	-1.838	-.805	-.758	-.666	-.733
23	-1.617	-.572	-.323	-.450	-.444	-.485	-.566
24	-1.593	-.421	-.100	-.378	-.447	-.400	-.460
25	1.151	1.086	.185	.427	.915	1.042	.157
26	.968	1.213	1.021	.546	.000,000	-.002	.060
27	.375	.785	.921	1.043	1.057	.600	.432
28	.121	.452	.676	.897	.865	.689	.445
29	.020	.504	.691	.741	.708	.568	.404
30	.587	1.157	1.113	1.020	.970	.945	-.086
31	.767	1.172	1.158	1.042	1.005	1.001	.413
32	.547	.902	.939	.947	.884	.795	.600
33	.280	.592	.702	.670	.569	.435	.016

Table 10. - Continued.

(c) $C_{T,S} = 0.60$, $q_s = 21.45$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.055	-.784	-2.079	-2.034	-.806	.192	-.814
2	-1.274	-2.154	-3.219	-3.556	-2.055	-1.003	-1.096
3	-1.508	-2.457	-3.097	-3.452	-2.201	-1.048	-.963
4	-1.909	-2.696	-3.068	-3.293	-2.275	-1.505	-.907
5	-1.948	-2.779	-2.748	-2.788	-2.127	-1.337	-.762
6	*000.000	*000.000	*000.000	.059	.127	.184	-.065
7	*000.000	*000.000	*000.000	-1.997	-1.629	-.957	-.625
8	*000.000	*000.000	*000.000	-3.014	-2.868	-1.707	-.751
9	*000.000	*000.000	*000.000	-3.072	-3.504	-2.098	-.806
10	-1.449	-2.020	-2.131	-2.400	-2.321	-1.235	-.564
11	-1.355	-1.782	*000.000	-1.689	-1.280	-.709	-.452
12	-1.620	-1.313	-1.103	-.789	-.590	-.513	-.429
13	-1.390	-1.310	-.980	-.647	-.643	-.443	-.457
14	-2.015	-1.546	-1.174	-.769	-.727	-.557	-.532
15	-.580	-.557	.381	.555	.463	.564	-.015
16	-.813	-.275	.078	.168	.060	.198	-.067
17	-1.908	-1.619	-.916	-.481	-.627	-.286	-.416
18	-2.948	-2.503	-1.854	-1.092	-.931	-.805	-.652
19	-4.334	-3.403	-2.611	-1.083	-.812	-.622	-.549
20	-4.589	-3.360	-2.563	-1.043	-.841	-.450	-.557
21	-4.495	-3.090	-2.119	-.953	-.741	-.585	-.567
22	-3.868	-2.372	-1.797	-.812	-.713	-.427	-.480
23	-1.692	-.626	-.488	-.363	-.312	-.411	-.403
24	-1.770	-.396	-.030	-.205	-.358	-.406	-.390
25	1.115	.857	-.259	.075	.846	1.113	-.146
26	1.098	1.264	1.051	.782	*000.000	.126	.071
27	.526	1.060	1.181	1.222	1.145	.691	.347
28	.137	.572	.722	1.108	.950	.592	.414
29	-.029	.542	.661	.802	.704	.647	.401
30	.495	1.225	1.179	1.086	.985	.961	-.004
31	.704	1.233	1.225	1.122	1.054	1.064	.270
32	.440	.867	.937	.895	.808	.794	.558
33	.275	.676	.790	.783	.621	.565	.068

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.430	-1.355	-2.598	-2.552	-1.133	-.229	-1.093
2	-1.745	-2.830	-3.814	-4.041	-2.367	-1.240	-1.310
3	-2.114	-3.247	-3.986	-4.240	-2.788	-1.498	-1.210
4	-2.347	-3.142	-3.527	-3.712	-2.618	-1.652	-.805
5	-2.245	-3.037	-2.981	-2.898	-2.141	-1.380	-.614
6	*000.000	*000.000	*000.000	.036	.121	.024	-.114
7	*000.000	*000.000	*000.000	-2.242	-1.746	-.857	-.657
8	*000.000	*000.000	*000.000	-3.282	-3.028	-1.542	-.662
9	*000.000	*000.000	*000.000	-3.041	-3.318	-1.606	-.493
10	-1.620	-2.088	-2.137	-2.128	-2.118	-.930	-.492
11	-1.455	-1.824	*000.000	-1.639	-1.079	-.373	-.316
12	-1.714	-1.442	-1.162	-.858	-.663	-.477	-.566
13	-1.604	-1.419	-1.022	-.708	-.556	-.327	-.404
14	-2.077	-1.514	-1.085	-.694	-.575	-.418	-.535
15	-.763	-.583	.410	.608	.499	.513	-.094
16	-.958	-.294	.085	.232	.219	.136	-.205
17	-2.097	-1.694	-1.007	-.558	-.594	-.295	-.385
18	-3.089	-2.601	-1.890	-1.141	-.919	-.673	-.477
19	-3.667	-2.887	-2.088	-1.107	-.710	-.403	-.484
20	-4.592	-3.347	-2.249	-1.179	-.740	-.572	-.739
21	-4.498	-3.165	-2.247	-.879	-.613	-.454	-.523
22	-3.697	-2.408	-1.553	-.788	-.458	-.575	-.517
23	-1.706	-.715	-.624	-.428	-.468	-.449	-.408
24	-1.835	-.327	-.071	-.224	-.362	-.346	-.319
25	.935	.640	-.552	-.044	.743	.577	-.529
26	1.085	1.321	1.122	.827	*000.000	-.048	-.097
27	.554	1.125	1.279	1.242	1.081	.832	.280
28	.138	.637	.756	1.122	.883	.470	.343
29	-.088	.601	.717	.802	.642	.456	.357
30	.380	1.301	1.271	1.174	1.025	.916	-.246
31	.582	1.209	1.178	1.094	1.013	1.041	.095
32	.417	.958	1.045	.980	.858	.769	.531
33	.170	.632	.765	.710	.550	.385	.017

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.917	-2.274	-3.731	-3.434	-1.885	-1.710	-1.681
2	-2.178	-3.568	-4.582	-4.856	-3.133	-1.801	-1.431
3	-2.322	-3.739	-4.449	-4.673	-3.292	-1.844	-1.380
4	-2.597	-3.646	-4.071	-4.288	-3.061	-1.758	-.990
5	-2.538	-3.517	-3.506	-3.375	-2.649	-1.440	-.747
6	*000.000	*000.000	*000.000	.030	.127	-.016	-.082
7	*000.000	*000.000	*000.000	-2.158	-1.700	-.774	-.474
8	*000.000	*000.000	*000.000	-2.913	-2.792	-1.090	-.621
9	*000.000	*000.000	*000.000	-3.045	-3.462	-1.158	-.416
10	-1.795	-2.343	-2.346	-2.096	-1.980	-.627	-.320
11	-1.602	-2.014	*000.000	-1.597	-.939	-.288	-.281
12	-1.598	-1.444	-1.064	-.728	-.459	-.257	-.293
13	-1.541	-1.354	-.934	-.532	-.352	-.281	-.332
14	-2.046	-1.493	-.982	-.599	-.426	-.376	-.429
15	-.875	-.645	.418	.575	.462	.490	-.132
16	-.987	-.304	.128	.227	.166	.154	-.079
17	-2.084	-1.745	-.972	-.495	-.470	-.263	-.414
18	-3.209	-2.740	-1.980	-1.066	-.906	-.603	-.741
19	-3.995	-3.266	-2.423	-1.031	-.642	-.610	-.429
20	-5.024	-3.884	-2.797	-1.013	-.648	-.478	-.734
21	-4.139	-3.241	-2.204	-.848	-.594	-.445	-.527
22	-3.397	-2.504	-1.791	-.705	-.434	-.325	-.492
23	-1.487	-.798	-.700	-.510	-.490	-.436	-.443
24	-1.739	-.447	-.049	-.308	-.428	-.430	-.481
25	.753	.285	-.701	-.462	.486	-.527	-.714
26	1.104	1.266	1.069	.848	*000.000	.132	-.077
27	.571	1.146	1.276	1.194	1.061	.728	.261
28	.140	.653	.828	1.012	.878	.455	.311
29	-.093	.570	.710	.797	.629	.457	.374
30	.352	1.206	1.202	1.070	.960	.837	-.134
31	.545	1.212	1.228	1.156	1.054	.995	.202
32	.383	.920	1.010	.865	.799	.711	.453
33	.185	.583	.749	.537	.516	.380	.049

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.143	-2.705	-4.234	-3.850	-2.599	-2.242	-1.797
2	-2.544	-4.126	-5.152	-5.164	-3.615	-1.834	-1.489
3	-2.836	-4.301	-4.957	-4.988	-3.793	-1.813	-1.188
4	-3.052	-4.370	-4.843	-4.894	-3.604	-1.540	-.949
5	-2.842	-3.778	-3.695	-3.531	-2.740	-1.026	-.652
6	*000.000	*000.000	*000.000	.006	.049	-.111	.089
7	*000.000	*000.000	*000.000	-2.344	-1.902	-1.013	-.579
8	*000.000	*000.000	*000.000	-2.949	-2.719	-.932	-.478
9	*000.000	*000.000	*000.000	-2.578	-3.002	-.914	-.457
10	-1.943	-2.496	-2.544	-1.718	-1.701	-.595	-.354
11	-1.603	-1.964	*000.000	-1.317	-.552	-.348	-.326
12	-1.554	-1.410	-1.029	-.636	-.367	-.355	-.348
13	-1.683	-1.385	-.877	-.521	-.366	-.310	-.341
14	-2.165	-1.545	-1.044	-.577	-.480	-.377	-.340
15	-.846	-.615	.434	.543	.398	.415	-.058
16	-.993	-.315	.086	.272	.182	.113	-.064
17	-2.006	-1.679	-.887	-.416	-.497	-.313	-.142
18	-3.066	-2.628	-1.792	-.869	-.688	-.605	-.630
19	-4.036	-3.351	-2.321	-.893	-.758	-.633	-.498
20	-4.404	-3.545	-2.271	-.909	-.646	-.549	-.482
21	-3.837	-3.229	-2.173	-.828	-.687	-.658	-.564
22	-3.250	-2.479	-1.608	-.570	-.532	-.508	-.441
23	-1.503	-.755	-.685	-.541	-.448	-.470	-.411
24	-1.194	-.322	-.077	-.334	-.360	-.375	-.370
25	.719	-.057	-1.322	-.678	.284	-1.187	-.855
26	1.049	1.205	.970	.838	*000.000	.237	-.078
27	.533	1.166	1.228	1.147	1.003	.638	.326
28	.148	.717	.848	.977	.797	.379	.375
29	-.119	.548	.714	.737	.505	.393	.390
30	.287	1.283	1.331	1.176	.997	.739	.001
31	.489	1.151	1.159	.996	.935	.830	.132
32	.397	.949	1.059	.765	.700	.662	.483
33	.169	.576	.763	.560	.441	.334	.039

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.392	-3.092	-4.608	-4.200	-2.718	-2.092	-1.705
2	-3.012	-4.673	-5.716	-5.631	-4.006	-1.799	-1.406
3	-3.150	-4.736	-5.402	-5.308	-4.025	-1.195	-1.094
4	-3.201	-4.411	-4.810	-4.771	-3.425	-1.155	-.761
5	-3.064	-3.989	-3.943	-3.616	-2.559	-1.159	-.581
6	*000.000	*000.000	*000.000	.014	-.163	-.254	-.078
7	*000.000	*000.000	*000.000	-2.070	-1.501	-.593	-.365
8	*000.000	*000.000	*000.000	-2.584	-2.264	-.686	-.503
9	*000.000	*000.000	*000.000	-2.189	-2.553	-.652	-.414
10	-2.189	-2.599	-2.557	-1.247	-1.033	-.406	-.268
11	-1.829	-2.087	*000.000	-1.260	-.438	-.319	-.324
12	-1.524	-1.376	-.937	-.620	-.372	-.269	-.274
13	-2.024	-1.587	-1.038	-.564	-.479	-.398	-.471
14	-2.560	-1.703	-1.134	-.522	-.469	-.398	-.468
15	-.909	-.590	.452	.408	.383	.398	.009
16	-1.203	-.366	.078	.143	.137	.073	-.086
17	-2.008	-1.645	-.922	-.415	-.525	-.282	-.386
18	-3.030	-2.720	-2.056	-1.019	-.941	-.891	-.615
19	-3.501	-2.973	-2.090	-.809	-.675	-.694	-.545
20	-3.902	-2.983	-1.770	-.737	-.539	-.465	-.444
21	-3.724	-3.080	-2.048	-.752	-.767	-.603	-.556
22	-2.960	-2.101	-1.453	-.594	-.470	-.457	-.466
23	-1.297	-.689	-.654	-.460	-.496	-.461	-.463
24	-1.103	-.237	-.148	-.324	-.359	-.330	-.387
25	.494	-.348	-1.711	-.752	.078	-2.245	-1.047
26	1.051	1.217	.890	.841	*000.000	.188	-.096
27	.496	1.298	1.305	1.168	.813	.648	.279
28	.105	.713	.826	.911	.561	.379	.362
29	-.163	.508	.649	.668	.408	.379	.366
30	.222	1.251	1.203	.930	.854	.651	.078
31	.471	1.247	1.198	.821	.860	.751	.273
32	.284	.897	.985	.544	.582	.562	.407
33	.118	.569	.706	.579	.393	.349	.124

Table 10. - Continued.

(d) $C_{T,S} = 0.30$, $q_S = 19.05$

$\alpha = 5°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	1.062	1.156	.650	.661	1.118	1.052	.979
2	.560	.519	.012	.588	.948	.918	.912
3	.347	.279	-.170	.637	.787	.822	.838
4	-.069	-.261	-.724	.310	.399	.443	.446
5	.402	-.706	-.920	.245	.103	.129	.135
6	*000.000	*000.000	*000.000	-.013	.042	-.076	-.001
7	*000.000	*000.000	*000.000	-.451	-.326	.044	.145
8	*000.000	*000.000	*000.000	-1.418	-1.377	-1.173	-1.067
9	*000.000	*000.000	*000.000	-2.509	-2.597	-2.302	-2.023
10	-.651	-.972	-1.266	-2.566	-1.935	-1.731	-1.477
11	-.789	-1.140	*000.000	-1.499	-1.521	-1.325	-1.176
12	-1.342	-1.038	-.984	-.951	-1.190	-1.089	-.912
13	-.648	-.938	-.821	-.818	-.900	-.797	-.640
14	-.790	-.936	-.809	-.702	-.807	-.732	-.582
15	-.100	-.306	.104	.226	.233	.263	-.177
16	-.063	-.073	-.078	-.082	-.100	-.130	-.161
17	-.697	-.997	-.543	-.581	-.751	-.622	-.623
18	-1.428	-1.617	-1.080	-1.086	-1.223	-1.294	-1.110
19	-1.948	-1.998	-1.430	-1.441	-1.686	-1.234	-1.107
20	-2.301	-2.100	-1.484	-1.438	-1.684	-1.674	-1.354
21	-2.300	-1.923	-1.344	-1.012	-1.377	-1.391	-1.194
22	-1.856	-1.084	-.731	-.643	-.513	-.882	-.913
23	-1.313	-.415	-.233	-.277	-.242	-.327	-.619
24	-.804	-.346	-.288	-.259	-.205	-.308	-.364
25	.849	.845	.624	.250	.561	.376	.376
26	-.044	-.092	.140	-.113	*000.000	-.126	.387
27	-.388	-.361	-.159	-.074	.131	-.106	-.137
28	-.174	-.151	.072	.116	.041	.059	.231
29	.038	.227	.303	.409	.405	.419	.374
30	.779	1.040	.530	.546	.520	.625	.390
31	.909	1.066	.566	.564	.639	.611	.788
32	.604	.793	.426	.747	.845	.710	.830
33	.287	.455	.348	.724	.523	.512	.262

$\alpha = 10°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.862	.956	.165	.662	1.072	.990	.956
2	.188	.053	-.637	.629	.679	.647	.582
3	-.179	-.355	-.907	.105	.347	.374	.261
4	-.613	-.997	-1.560	-.301	-.122	-.104	-.101
5	-.879	-1.278	-1.620	-.548	-.465	-.369	-.280
6	*000.000	*000.000	*000.000	-.170	-.042	-.054	-.123
7	*000.000	*000.000	*000.000	-1.018	-.822	-.789	-.607
8	*000.000	*000.000	*000.000	-1.953	-1.923	-1.738	-1.661
9	*000.000	*000.000	*000.000	-2.972	-3.112	-2.877	-2.625
10	-1.094	-1.515	-1.907	-3.732	-2.684	-2.537	-2.358
11	-1.118	-1.531	*000.000	-1.873	-1.928	-1.774	-1.560
12	-1.543	-1.079	-1.061	-.973	-1.253	-1.144	-.997
13	-.891	-1.062	-.966	-.918	-1.063	-1.003	-.700
14	-1.136	-1.042	-.891	-.886	-1.004	-.977	-.760
15	-.183	-.313	.211	.375	.363	.290	-.087
16	-.269	-.097	-.007	.037	-.062	-.199	-.182
17	-1.095	-1.163	-.637	-.708	-1.016	-.854	-.714
18	-1.842	-1.785	-1.268	-1.266	-1.492	-1.589	-1.221
19	-2.590	-2.361	-1.800	-1.607	-1.864	-1.543	-1.318
20	-2.920	-2.365	-1.761	-1.550	-1.672	-1.776	-1.379
21	-2.951	-2.044	-1.456	-1.230	-1.392	-1.508	-1.123
22	-2.586	-1.264	-.628	-.837	-.841	-1.114	-1.045
23	-1.600	-.329	-.226	-.182	-.197	-.327	-.788
24	-1.160	-.290	-.241	-.118	-.228	-.327	-.606
25	.955	1.163	.631	.549	.810	.725	.684
26	.451	.603	.589	-.193	*000.000	-.141	.245
27	-.104	.049	.234	.139	.145	-.235	-.007
28	-.127	.059	.239	.625	.859	.608	.418
29	.015	.337	.392	.526	.598	.525	.408
30	.670	1.204	.635	.926	.915	.828	.210
31	.761	1.137	.648	.972	.956	.876	.725
32	.512	.780	.546	.820	.792	.729	.753
33	.224	.496	.406	.584	.551	.460	.109

$\alpha = 15°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.497	.333	-1.173	.010	.540	.693	.673
2	.504	-.894	-2.172	-.644	-.081	.020	.071
3	-.735	-1.238	-2.181	-.604	-.526	-.234	-.162
4	-1.175	-1.725	-2.424	-.994	-.784	-.662	-.490
5	-1.434	-2.096	-2.519	-1.272	-1.030	-.941	-.798
6	*000.000	*000.000	*000.000	-.060	-.005	-.007	-.208
7	*000.000	*000.000	*000.000	-1.575	-1.286	-1.244	-1.324
8	*000.000	*000.000	*000.000	-2.690	-2.675	-2.537	-2.582
9	*000.000	*000.000	*000.000	-3.571	-3.890	-3.697	-3.461
10	-1.258	-1.773	-2.137	-3.740	-2.850	-2.677	-2.359
11	-1.186	-1.712	*000.000	-1.926	-2.078	-1.892	-1.690
12	-1.811	-1.267	-1.231	-1.119	-1.327	-1.125	-.998
13	-1.083	-1.194	-1.053	-.943	-1.066	-.938	-.847
14	-1.442	-1.239	-1.030	-.957	-1.021	-.926	-.847
15	-.342	-.440	.331	.451	.386	.335	-.357
16	-.479	-.156	.041	.062	-.073	-.151	-.282
17	-1.437	-1.371	-.747	-.811	-1.119	-.934	-.789
18	-2.203	-2.002	-1.429	-1.309	-1.519	-1.528	-1.096
19	-3.221	-2.691	-2.158	-1.670	-1.978	-1.592	-1.242
20	-3.642	-2.676	-2.133	-1.566	-1.718	-1.646	-1.316
21	-3.762	-2.434	-1.748	-1.296	-1.520	-1.431	-1.275
22	-3.247	-1.601	-1.074	-.973	-1.002	-1.100	-1.091
23	-1.722	-.376	-.298	-.249	-.140	-.563	-.753
24	-1.339	-.324	-.319	-.037	-.019	-.273	-.669
25	1.136	1.292	.189	.785	1.081	.992	.841
26	.817	1.070	.690	.085	*000.000	-.405	.190
27	.223	.484	.582	.793	.541	.332	.293
28	0.	.202	.401	.631	.720	.661	.548
29	.040	.413	.515	.644	.665	.596	.480
30	.651	1.241	.920	1.000	.985	.939	.257
31	.810	1.210	.870	1.071	1.007	.991	.782
32	.539	.870	.714	1.062	.832	.758	.751
33	.276	.576	.503	.672	.615	.507	-.041

$\alpha = 20°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-.103	-.670	-2.710	-.848	-.186	.220	.197
2	-1.234	-2.080	-3.527	-2.090	-1.300	-.751	-.507
3	-1.479	-2.398	-3.596	-2.039	-1.570	-.984	-.729
4	-1.889	-2.697	-3.484	-2.253	-1.857	-1.555	-1.286
5	-1.864	-2.843	-3.299	-2.329	-2.035	-1.755	-1.428
6	*000.000	*000.000	*000.000	-.071	.054	-.099	-.177
7	*000.000	*000.000	*000.000	-2.298	-2.020	-1.950	-1.999
8	*000.000	*000.000	*000.000	-3.430	-3.431	-3.180	-3.219
9	*000.000	*000.000	*000.000	-4.115	-4.426	-4.115	-3.746
10	-1.574	-2.295	-2.620	-4.124	-3.368	-3.193	-2.896
11	-1.335	-1.870	*000.000	-2.044	-2.103	-1.949	-1.635
12	-1.978	-1.417	-1.319	-1.336	-1.351	-1.147	-.953
13	-1.400	-1.485	-1.250	-1.126	-1.114	-.995	-.869
14	-1.724	-1.376	-1.096	-.970	-.963	-.894	-.808
15	-.538	-.484	.367	.479	.401	.304	-.316
16	-.779	-.206	.047	.097	-.009	-.164	-.206
17	-1.821	-1.545	-.860	-.781	-.977	-.870	-.712
18	-2.840	-2.300	-1.688	-1.367	-1.456	-1.480	-1.103
19	-3.911	-2.857	-2.300	-1.555	-1.721	-1.442	-1.105
20	-4.248	-2.832	-2.173	-1.459	-1.448	-1.109	-1.044
21	-4.548	-2.720	-1.971	-1.211	-1.125	-1.021	-.751
22	-4.120	-2.045	-1.391	-.971	-.824	-.866	-.743
23	-1.748	-.415	-.261	-.269	-.237	-.540	-.581
24	-1.795	-.393	-.220	-.045	-.035	-.323	-.629
25	1.091	1.116	-.451	.695	1.004	1.031	.892
26	.991	1.249	.815	.097	*000.000	-.207	.224
27	.470	.764	.824	.970	.848	.807	.815
28	.122	.382	.588	.793	.791	.710	.610
29	.015	.517	.624	.723	.699	.603	.539
30	.628	1.317	1.195	1.059	.981	.942	.215
31	.765	1.370	1.090	1.165	1.054	1.026	.871
32	.515	.918	.822	.917	.830	.757	.794
33	.310	.633	.684	.700	.630	.492	-.043

Table 10. - Concluded.

(d) $C_{T,s} = 0.30$, $q_s = 19.05$

$\alpha = 25°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-.502	-1.044	-3.010	-.767	-.417	.099	.100
2	-1.891	-2.925	-4.609	-2.347	-1.575	-.962	-.791
3	-2.279	-3.415	-4.625	-2.663	-2.059	-1.338	-.979
4	-2.293	-3.319	-4.017	-2.453	-1.951	-1.385	-1.088
5	-2.435	-3.595	-3.811	-2.249	-1.926	-1.536	-1.255
6	*000.000	*000.000	*000.000	.126	.128	.072	-.075
7	*000.000	*000.000	*000.000	-1.740	-1.729	-1.376	-1.220
8	*000.000	*000.000	*000.000	-3.115	-3.312	-2.548	-1.980
9	*000.000	*000.000	*000.000	-3.002	-3.935	-3.071	-2.153
10	-1.555	-2.193	-2.387	-1.342	-2.250	-1.653	-.913
11	-1.498	-2.059	*000.000	-1.524	-1.395	-1.059	-1.035
12	-1.850	-1.478	-1.241	-1.210	-.791	-.724	-.868
13	-1.535	-1.469	-1.145	-.810	-.733	-.685	-.698
14	-2.053	-1.548	-1.187	-.723	-.755	-.751	-.719
15	-.684	-.557	.319	.593	.426	.449	-.290
16	-1.036	-.300	.028	.198	-.007	.061	-.163
17	-2.147	-1.729	-1.029	-.588	-.819	-.600	-.600
18	-3.276	-2.626	-1.934	-1.068	-1.097	-1.087	-.917
19	-4.543	-3.319	-2.543	-1.093	-1.151	-1.068	-.854
20	-5.015	-3.371	-2.494	-1.013	-.801	-.797	-.954
21	-5.339	-3.262	-2.186	-.767	-.786	-.633	-.785
22	-4.186	-2.331	-1.574	-.678	-.774	-.700	-.706
23	-2.370	-.740	-.564	-.613	-.618	-.538	-.556
24	-1.943	-.221	-.332	-.428	-.486	-.394	-.448
25	.960	.908	-.954	.701	.921	1.072	.781
26	1.145	1.348	.862	.283	*000.000	-.012	.260
27	.633	.974	.990	1.069	.818	.801	.874
28	.229	.586	.732	.892	.846	.780	.621
29	.028	.556	.672	.893	.665	.681	.538
30	.514	1.336	1.269	1.084	.935	.998	.276
31	.731	1.340	1.205	1.132	1.021	1.046	.827
32	.535	1.009	1.008	.953	.819	.835	.843
33	.266	.639	.727	.669	.499	.497	.006

$\alpha = 30°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-1.279	-2.391	-4.385	-2.171	-1.500	-.698	-.805
2	-2.557	-3.964	-5.322	-3.211	-2.327	-1.532	-1.141
3	-2.876	-4.523	-5.583	-3.701	-2.828	-1.822	-1.251
4	-3.296	-4.964	-5.422	-3.880	-2.974	-2.217	-1.475
5	-3.408	-4.291	-4.531	-3.159	-2.695	-2.051	-1.371
6	*000.000	*000.000	*000.000	-.039	.072	.025	-.046
7	*000.000	*000.000	*000.000	-2.042	-2.042	-1.584	-1.271
8	*000.000	*000.000	*000.000	-3.674	-3.988	-2.895	-2.220
9	*000.000	*000.000	*000.000	-3.103	-4.944	-3.775	-2.130
10	-1.947	-2.734	-2.808	-1.255	-2.485	-1.836	-.972
11	-1.651	-2.419	*000.000	-1.636	-1.390	-.906	-.754
12	-1.895	-1.531	-1.242	-1.188	-.739	-.783	-.918
13	-1.674	-1.557	-1.114	-1.042	-.717	-.655	-.691
14	-2.551	-1.782	-1.340	-.849	-.869	-.700	-.676
15	-.918	-.648	.413	.573	.455	.398	-.145
16	-1.170	-.328	.036	.152	.122	.023	-.148
17	-2.444	-1.816	-1.067	-.745	-.890	-.693	-.672
18	-3.716	-2.704	-1.988	-1.183	-1.028	-.871	-.947
19	-5.031	-3.332	-2.158	-1.117	-1.296	-.981	-.875
20	-5.759	-3.676	-2.375	-1.031	-1.163	-.807	-.830
21	-5.583	-3.456	-2.292	-.967	-.914	-.719	-.672
22	-4.785	-2.458	-1.262	-.851	-.871	-.717	-.732
23	-2.265	-.772	-.474	-.447	-.349	-.420	-.439
24	-2.384	-.334	-.163	-.464	-.543	-.454	-.494
25	.667	.354	-1.378	.266	.625	.811	.444
26	1.245	1.400	.959	.726	*000.000	.333	.286
27	.744	1.129	1.161	1.078	.824	.672	.743
28	.319	.748	.907	.978	.933	.787	.656
29	.020	.612	.720	.778	.759	.646	.618
30	.425	1.322	1.287	1.062	.962	.934	.247
31	.600	1.272	1.224	1.054	1.001	.933	.710
32	.527	1.021	1.075	1.073	.865	.757	.833
33	.322	.722	.826	.654	.631	.498	.055

$\alpha = 35°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-2.029	-3.625	-5.598	-3.279	-2.483	-1.208	-1.158
2	-3.482	-5.355	-6.709	-4.396	-3.104	-1.954	-1.335
3	-3.875	-5.900	-6.935	-4.628	-3.630	-2.379	-1.591
4	-3.587	-5.141	-5.788	-4.046	-3.161	-2.204	-1.327
5	-3.195	-4.541	-4.676	-3.352	-2.809	-2.005	-1.120
6	*000.000	*000.000	*000.000	.035	.046	.073	.058
7	*000.000	*000.000	*000.000	-2.224	-2.148	-1.623	-1.067
8	*000.000	*000.000	*000.000	-2.792	-3.414	-2.425	-1.274
9	*000.000	*000.000	*000.000	-2.328	-4.109	-2.921	-1.351
10	-2.048	-2.833	-2.920	-1.596	-2.424	-1.471	-.704
11	-1.826	-2.431	*000.000	-1.851	-1.345	-.809	-.624
12	-2.138	-1.785	-1.437	-1.469	-.857	-.684	-.582
13	-1.794	-1.522	-1.114	-.813	-.730	-.532	-.517
14	-2.602	-1.618	-1.168	-.906	-.700	-.614	-.558
15	-1.096	-.704	.347	.563	.490	.441	.056
16	-1.449	-.373	.029	.086	.119	.079	.007
17	-2.714	-1.933	-1.162	-.762	-.795	-.685	-.548
18	-4.622	-3.204	-2.351	-1.388	-1.086	-.912	-.924
19	-5.789	-3.680	-2.503	-1.252	-1.079	-1.009	-.863
20	-5.487	-3.604	-2.387	-1.108	-.908	-.755	-.816
21	-5.623	-3.603	-2.323	-1.155	-.839	-.720	-.726
22	-4.161	-2.451	-1.532	-.790	-.774	-.663	-.623
23	-2.392	-.854	-.491	-.572	-.578	-.596	-.568
24	-2.583	-.318	-.131	-.514	-.619	-.566	-.568
25	.092	-.574	-2.132	-.199	.120	.619	.265
26	1.168	1.248	.895	.839	*000.000	.442	.322
27	.883	1.273	1.315	1.150	.868	.660	.761
28	.368	.825	1.006	1.015	.950	.752	.713
29	.042	.696	.818	.980	.736	.663	.661
30	.317	1.416	1.433	1.216	1.060	1.036	.193
31	.577	1.394	1.360	1.188	1.070	1.057	.702
32	.424	1.007	1.085	.938	.812	.735	.791
33	.334	.765	.903	.794	.642	.512	.225

$\alpha = 40°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-2.858	-4.825	-6.677	-4.440	-2.935	-1.906	-1.253
2	-4.187	-6.340	-7.564	-5.741	-3.912	-2.555	-1.634
3	-4.498	-6.779	-7.762	-5.847	-4.480	-2.958	-1.795
4	-4.356	-6.370	-6.974	-5.380	-4.045	-2.867	-1.748
5	-3.744	-5.403	-5.565	-4.135	-3.431	-2.404	-1.349
6	*000.000	*000.000	*000.000	-.008	-.016	.018	-.028
7	*000.000	*000.000	*000.000	-2.110	-2.043	-1.425	-.996
8	*000.000	*000.000	*000.000	-2.884	-3.517	-2.322	-1.189
9	*000.000	*000.000	*000.000	-2.116	-3.817	-2.070	-.770
10	-2.287	-3.165	-3.199	-1.644	-2.326	-1.125	-.658
11	-1.732	-2.271	*000.000	-1.610	-1.002	-.519	-.361
12	-1.893	-1.585	-1.203	-1.388	-.652	-.502	-.548
13	-2.046	-1.580	-1.093	-1.215	-.648	-.495	-.538
14	-2.883	-1.544	-1.048	-.957	-.663	-.528	-.650
15	-1.068	-.672	.503	.593	.468	.472	.170
16	-1.509	-.415	.028	.128	.139	.040	-.129
17	-2.643	-1.631	-.960	-.678	-.671	-.510	-.542
18	-4.013	-2.648	-1.740	-1.226	-.897	-.776	-.801
19	-5.003	-3.203	-2.209	-1.242	-.894	-.863	-.762
20	-5.092	-3.098	-1.935	-1.016	-.817	-.624	-.788
21	-4.748	-2.802	-1.542	-.891	-.737	-.640	-.614
22	-3.839	-2.160	-1.484	-.994	-.759	-.695	-.682
23	-2.237	-.740	-.725	-.648	-.598	-.622	-.631
24	-1.401	-.269	-.223	-.498	-.541	-.529	-.500
25	-.382	-1.376	-3.069	-1.046	-.411	-.585	-.194
26	1.146	1.155	.729	.899	*000.000	.446	.276
27	.931	1.283	1.293	1.119	.836	.608	.661
28	.427	.938	1.075	1.161	.940	.734	.707
29	.013	.735	.885	.898	.779	.703	.660
30	.292	1.295	1.281	1.113	.932	.891	.222
31	.535	1.314	1.313	1.143	1.029	1.006	.712
32	.441	1.024	1.136	.981	.846	.756	.674
33	.273	.619	.798	.680	.535	.427	.216

Table 11.- Pressure coefficients for wing with propeller rotation down at tip, inboard slat, $\delta_f = 60°$.

(a) $C_{T,s} = 0.90$, $q_s = 20.20$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.006	.944	.177	.740	1.116	1.163	.485
2	1.019	1.174	.832	.657	.985	1.063	.281
3	.868	1.102	.973	.513	.789	.921	.243
4	.571	.850	.840	.433	.528	.609	.088
5	.185	.441	.516	.266	.188	.202	-.093
6	.000,000	.000,000	.000,000	.261	.098	.178	.103
7	.000,000	.000,000	.000,000	.024	.089	.192	.038
8	.000,000	.000,000	.000,000	-.674	-.700	-.514	-.420
9	.000,000	.000,000	.000,000	-1.562	-1.613	-1.350	-.731
10	-.185	-.214	-.268	-1.514	-1.390	-1.064	-.522
11	-.322	-.564	.000,000	-1.112	-1.077	-.685	-.380
12	-.647	-.563	-.567	-.842	-.798	-.488	-.250
13	-.297	-.560	-.561	-.669	-.658	-.449	-.208
14	-.364	-.636	-.604	-.686	-.826	-.478	-.291
15	-.072	-3.937	.066	-.085	-.069	.038	.069
16	-1.208	-1.461	-1.159	-1.501	-2.019	-1.435	-.691
17	-1.649	-2.157	-1.399	-1.934	-2.318	-1.655	-1.016
18	-1.818	-2.027	-1.775	-2.033	-2.517	-1.901	-1.127
19	-1.663	-1.580	-1.573	-2.217	-2.754	-1.894	-1.209
20	-1.333	-1.217	-.854	-1.469	-2.035	-1.836	-1.177
21	-1.021	-.540	-.397	-.509	-1.231	-1.279	-.973
22	-.595	-.394	-.332	-.335	-.529	-.954	-.862
23	-.329	-.282	-.235	-.230	-.414	-.386	-.611
24	-.413	-.222	-.249	-.207	-.174	-.004	-.394
25	-.083	-.461	-1.127	.621	.626	.479	.435
26	-.560	-1.274	-1.443	.033	.000,000	.166	.333
27	-.723	-.789	-.724	.430	-.056	.153	.113
28	-.168	-.199	.031	.640	.202	.230	.243
29	-.033	.413	.477	.589	.681	.593	.510
30	-.095	.380	.514	.692	.743	.803	.289
31	.744	.671	.657	.907	1.020	.992	.310
32	.785	1.098	.694	.913	1.032	1.016	.863
33	.547	.780	.640	.725	.844	.905	.831

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.046	1.051	.464	.474	1.111	1.200	.517
2	1.031	1.166	.957	.256	.883	1.055	.140
3	.825	1.034	.916	.244	.652	.772	-.020
4	.479	.738	.817	.108	.387	.547	-.124
5	.085	.276	.493	.055	.104	.159	-.214
6	.000,000	.000,000	.000,000	.228	.076	.156	.086
7	.000,000	.000,000	.000,000	-.300	-.032	.166	.063
8	.000,000	.000,000	.000,000	-1.049	-.958	-.714	-.510
9	.000,000	.000,000	.000,000	-1.927	-1.961	-1.634	-.950
10	-.207	-.328	-.315	-1.818	-1.528	-1.202	-.739
11	-.372	-.705	.000,000	-1.250	-1.176	-.719	-.499
12	-.671	-.615	-.588	-.841	-.769	-.449	-.389
13	-.287	-.655	-.580	-.705	-.698	-.402	-.358
14	-.423	-.674	-.570	-.727	-.779	-.583	-.406
15	-.081	-4.036	.074	-.072	-.071	.102	.015
16	-1.213	-1.628	-1.129	-1.603	-1.881	-1.240	-.904
17	-1.674	-2.246	-1.683	-1.977	-2.385	-1.523	-1.253
18	-1.935	-2.531	-1.994	-2.317	-2.698	-2.331	-1.605
19	-1.867	-2.230	-1.775	-2.426	-2.857	-2.171	-1.412
20	-1.386	-1.557	-1.098	-1.379	-1.983	-1.749	-1.540
21	-1.033	-.615	-.389	-.595	-1.374	-1.186	-1.091
22	-.696	-.478	-.347	-.296	-.503	-1.025	-.932
23	-.503	-.265	-.237	-.212	-.370	-.433	-.772
24	-.542	-.298	-.210	-.259	-.247	-.078	-.531
25	.123	-.150	-.755	.664	.753	.585	.449
26	-.386	-.891	-.876	-.005	.000,000	.176	.157
27	-.599	-.665	-.562	.562	-.188	.078	-.024
28	-.138	-.161	.083	.626	.795	.196	.311
29	-.050	.432	.446	.548	.691	.727	.608
30	.007	.457	.477	.708	.754	.855	.124
31	.942	.906	.644	.936	1.018	1.042	.343
32	.792	1.046	.835	.884	1.033	1.036	.932
33	.573	.768	.723	.710	.853	.834	.884

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.109	1.103	.537	.304	1.049	1.135	.446
2	.933	1.193	.912	.008	.759	.951	.085
3	.738	.975	.887	-.084	.437	.809	-.025
4	.356	.676	.661	-.068	.182	.387	-.176
5	.023	.208	.268	-.157	-.120	-.136	-.247
6	.000,000	.000,000	.000,000	.235	.139	.078	-.015
7	.000,000	.000,000	.000,000	-.450	-.270	-.024	-.063
8	.000,000	.000,000	.000,000	-1.270	-1.192	-.883	-.638
9	.000,000	.000,000	.000,000	-2.009	-2.107	-1.697	-1.065
10	-.286	-.334	-.421	-1.857	-1.573	-1.242	-.699
11	-.429	-.672	.000,000	-1.145	-1.159	-.758	-.443
12	-.739	-.578	-.585	-.776	-.810	-.506	-.214
13	-.342	-.610	-.586	-.677	-.705	-.463	-.342
14	-.508	-.646	-.645	-.672	-.760	-.500	-.293
15	-.119	-4.108	-.054	-.064	-.134	.094	.053
16	-1.315	-1.627	-1.103	-1.464	-1.810	-1.517	-.923
17	-1.826	-2.406	-1.800	-1.980	-2.318	-1.783	-1.301
18	-2.015	-2.748	-2.118	-2.260	-2.597	-2.003	-1.801
19	-1.939	-2.583	-1.939	-2.161	-2.419	-1.830	-1.490
20	-1.517	-1.609	-1.080	-1.390	-1.938	-1.736	-1.470
21	-1.227	-.625	-.533	-.609	-1.070	-1.387	-1.180
22	-.863	-.372	-.323	-.301	-.530	-1.012	-1.012
23	-.696	-.234	-.195	-.157	-.233	-.433	-.713
24	-.542	-.261	-.311	-.160	-.178	-.025	-.240
25	.202	.182	-.411	.721	.833	.603	.406
26	-.312	-.632	-.687	.169	.000,000	.049	.187
27	-.599	-.523	-.420	.792	-.354	.016	.004
28	-.156	-.110	.153	.697	.874	.252	.214
29	.049	.495	.481	.645	.705	.699	.689
30	.046	.550	.484	.777	.789	.849	.122
31	.938	1.031	.702	1.052	1.023	1.085	.539
32	.892	1.083	.759	.977	1.052	1.079	1.044
33	.495	.781	.618	.753	.795	.755	.649

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.122	1.195	.727	.123	.968	1.144	.330
2	.868	1.073	.836	-.405	.466	.682	.026
3	.669	.967	.828	-.420	.197	.489	0.
4	.283	.512	.574	-.516	-.080	.082	-.522
5	-.068	.095	.112	-.642	-.462	-.230	-.510
6	.000,000	.000,000	.000,000	.223	.117	.020	-.159
7	.000,000	.000,000	.000,000	-.707	-.437	-.094	-.290
8	.000,000	.000,000	.000,000	-1.543	-1.442	-.993	-.782
9	.000,000	.000,000	.000,000	-2.318	-2.335	-1.855	-1.267
10	-.358	-.406	-.576	-2.033	-1.696	-1.265	-.782
11	-.473	-.759	.000,000	-1.266	-1.223	-.819	-.503
12	-.785	-.631	-.641	-.810	-.807	-.467	-.354
13	-.455	-.690	-.651	-.714	-.689	-.476	-.387
14	-.587	-.666	-.723	-.698	-.763	-.474	-.408
15	-.162	-4.085	-.113	-.082	-.137	.076	.112
16	-1.281	-1.633	-1.342	-1.398	-1.656	-1.312	-.825
17	-1.922	-2.560	-2.036	-2.068	-2.392	-1.752	-1.349
18	-2.085	-2.699	-2.340	-2.108	-2.211	-1.755	-1.471
19	-2.104	-2.775	-2.266	-2.232	-2.326	-1.964	-1.566
20	-1.820	-1.959	-1.482	-1.615	-1.872	-1.679	-1.460
21	-1.352	-.739	-.597	-.908	-1.299	-1.359	-1.109
22	-1.094	-.451	-.344	-.320	-.604	-.860	-.940
23	-.620	-.289	-.241	-.202	-.226	-.413	-.749
24	-.668	-.288	-.253	-.157	-.194	-.071	-.324
25	.404	.399	-.179	.666	.948	.762	.402
26	-.162	-.341	-.651	.228	.000,000	.034	.090
27	-.525	-.422	-.324	.865	-.115	.013	-.103
28	-.123	-.034	.171	.755	.811	.466	.290
29	.017	.574	.544	.684	.724	.689	.636
30	.131	.626	.640	.833	.823	.849	.179
31	.995	1.114	.678	.921	1.010	1.030	.504
32	.829	1.095	.921	.920	1.009	.980	.942
33	.523	.816	.703	.810	.804	.792	.592

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.097	1.108	.854	-.135	.832	.961	.251
2	.770	.931	.850	-.731	.269	.519	-.232
3	.566	.679	.826	-.803	-.015	.272	-.252
4	.178	.288	.472	-.868	-.295	-.149	-.543
5	-.161	-.187	.059	-.763	-.513	-.358	-.613
6	.000,000	.000,000	.000,000	.175	.048	-.045	-.026
7	.000,000	.000,000	.000,000	-.986	-.592	-.394	-.293
8	.000,000	.000,000	.000,000	-1.773	-1.561	-1.164	-.905
9	.000,000	.000,000	.000,000	-2.429	-2.409	-1.872	-1.276
10	-.422	-.610	-.616	-2.258	-1.773	-1.315	-.812
11	-.508	-.869	.000,000	-1.262	-1.250	-.837	-.511
12	-.855	-.714	-.736	-.820	-.776	-.461	-.320
13	-.525	-.801	-.646	-.712	-.629	-.441	-.308
14	-.647	-.870	-.809	-.833	-.783	-.437	-.387
15	-.262	-3.870	-.104	-.060	-.106	.148	.147
16	-1.474	-1.975	-1.473	-1.523	-1.567	-1.076	-.820
17	-2.045	-2.903	-2.188	-2.042	-2.090	-1.361	-1.124
18	-2.227	-2.816	-2.210	-1.907	-2.065	-1.650	-1.241
19	-2.352	-2.933	-2.508	-2.035	-2.254	-1.855	-1.199
20	-1.975	-2.001	-1.595	-1.361	-1.475	-1.546	-1.144
21	-1.646	-.939	-.666	-1.033	-1.275	-1.105	-1.060
22	-1.281	-.532	-.417	-.582	-.696	-.780	-.839
23	-.732	-.375	-.319	-.128	-.223	-.379	-.604
24	-.674	-.361	-.240	-.194	-.047	-.023	-.218
25	.534	.552	.099	.693	.995	.811	.275
26	-.005	-.126	-.053	.205	.000,000	-.123	.127
27	-.469	-.333	-.185	.946	.073	-.031	-.037
28	-.125	-.067	.196	.738	.799	.630	.337
29	.039	.496	.581	.690	.730	.657	.616
30	.248	.635	.686	.837	.796	.834	.267
31	1.025	1.123	.809	.982	1.005	1.048	.494
32	.900	1.048	.962	.965	.962	.970	.899
33	.551	.745	.750	.798	.809	.787	.665

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.079	1.214	.962	-.262	.783	.981	-.145
2	.667	.789	.719	-.903	.151	.437	-.233
3	.423	.569	.713	-1.016	-.183	.112	-.645
4	.016	.080	.312	-1.091	-.426	-.334	-.608
5	-.360	-.340	-.090	-.997	-.654	-.529	-.639
6	.000,000	.000,000	.000,000	.204	.196	.005	-.089
7	.000,000	.000,000	.000,000	-1.092	-.631	-.306	-.239
8	.000,000	.000,000	.000,000	-1.853	-1.605	-1.036	-.567
9	.000,000	.000,000	.000,000	-2.533	-2.493	-1.963	-1.165
10	-.474	-.725	-.698	-2.398	-1.868	-1.185	-.666
11	-.531	-.904	.000,000	-1.203	-1.161	-.615	-.399
12	-.877	-.747	-.748	-.780	-.684	-.410	-.313
13	-.592	-.846	-.766	-.695	-.580	-.419	-.325
14	-.679	-.871	-.773	-.795	-.692	-.388	-.357
15	-.273	-3.653	-.104	-.084	-.022	.188	.018
16	-1.611	-2.042	-1.568	-1.438	-1.459	-1.084	-.724
17	-2.412	-3.383	-2.824	-1.927	-1.865	-.791	-.504
18	-2.573	-3.284	-2.543	-1.916	-1.949	-1.539	-1.151
19	-2.737	-3.229	-2.639	-1.953	-1.567	-.990	-.400
20	-2.277	-2.095	-1.427	-1.622	-1.610	-1.299	-1.240
21	-2.042	-1.504	-.930	-1.081	-1.180	-.553	-.521
22	-1.562	-.741	-.481	-.649	-.609	-.613	-.598
23	-.815	-.425	-.240	-.219	-.137	-.271	-.367
24	-.653	-.505	-.321	.017	.037	-.086	-.137
25	.631	.774	.342	.696	1.028	.890	.056
26	.042	.155	.090	.236	.000,000	-.056	.116
27	-.401	-.141	-.077	.959	.309	-.037	-.029
28	-.176	.031	.289	.795	.843	.635	.283
29	.056	.461	.520	.719	.730	.626	.568
30	.204	.686	.702	.815	.825	.846	.264
31	.976	1.240	1.077	1.065	1.081	1.138	.459
32	.806	1.081	.944	1.033	1.026	.999	.916
33	.532	.763	.657	.830	.812	.718	.533

Table 11. - Continued.

(a) $C_{T,S} = 0.90$, $q_S = 20.20$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.053	1.186	.765	-.340	.624	.816	-.423
2	.641	.657	.554	-1.216	-.096	.150	-.751
3	.390	.449	.529	-1.265	-.401	-.086	-.835
4	-.082	-.026	.118	-1.378	-.700	-.562	-.849
5	-.426	-.492	-.325	-1.271	-.928	-.737	-.874
6	*000.000	*000.000	*000.000	.163	.285	-.019	-.138
7	*000.000	*000.000	*000.000	-1.186	-.743	-.377	-.325
8	*000.000	*000.000	*000.000	-2.089	-1.842	-1.242	-.785
9	*000.000	*000.000	*000.000	-2.652	-2.492	-1.717	-1.295
10	-.537	-.739	-.914	-2.264	-1.829	-1.181	-.425
11	-.586	-.913	*000.000	-1.089	-1.155	-.668	-.377
12	-.943	-.808	-.790	-.752	-.416	-.431	-.220
13	-.630	-.842	-.778	-.290	-.304	-.270	-.383
14	-.815	-.973	-.867	-.387	-.486	-.340	-.433
15	-.446	-3.514	-.133	.156	.002	.158	.025
16	-1.790	-2.134	-1.804	-.827	-.798	-.709	-.714
17	-2.633	-3.504	-2.666	-.825	-.749	-.574	-.631
18	-2.947	-3.552	-3.281	-.829	-.749	-.641	-.576
19	-2.922	-3.395	-3.186	-1.122	-1.034	-.760	-.468
20	-2.508	-2.278	-1.642	-1.480	-1.688	-1.050	-.994
21	-2.161	-1.542	-.667	-1.011	-1.089	-.490	-.327
22	-1.606	-.613	-.528	-.651	-.770	-.586	-.410
23	-.843	-.528	-.456	-.332	-.245	-.206	-.294
24	-.841	-.453	-.273	-.014	-.146	-.170	-.220
25	.682	.931	.675	.732	1.040	.950	-.077
26	.195	.408	.485	.250	*000.000	-.062	.142
27	-.329	-.019	.147	.969	.446	.025	.057
28	-.141	.108	.328	.834	.826	.686	.319
29	.024	.457	.597	.700	.635	.621	.498
30	.171	.773	.750	.848	.843	.848	.277
31	.888	1.116	.866	1.019	.965	1.041	.398
32	.782	1.047	.931	.997	.949	.931	.815
33	.514	.767	.686	.780	.722	.657	.436

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.001	1.090	.831	-.474	.506	.820	-.534
2	.508	.519	.338	-1.332	-.288	-.121	-.940
3	.254	.212	.134	-1.510	-.601	-.263	-.852
4	-.156	-.245	-.099	-1.355	-.750	-.683	-1.050
5	-.537	-.633	-.424	-1.367	-.994	-.876	-.854
6	*000.000	*000.000	*000.000	.166	.299	-.012	-.122
7	*000.000	*000.000	*000.000	-1.221	-.865	-.517	-.415
8	*000.000	*000.000	*000.000	-1.916	-1.677	-1.136	-.623
9	*000.000	*000.000	*000.000	-2.311	-2.092	-1.280	-.443
10	-.625	-.870	-.895	-2.246	-1.560	-.601	-.236
11	-.626	-.971	*000.000	-.748	-.324	-.310	-.181
12	-.955	-.821	-.713	-.341	-.269	-.330	-.265
13	-.777	-.927	-.625	-.318	-.339	-.358	-.381
14	-.987	-1.016	-.753	-.289	-.339	-.278	-.356
15	-.554	-3.329	-.116	.110	.076	.070	0.
16	-2.014	-2.429	-1.943	-.722	-.727	-.785	-.535
17	-2.920	-3.539	-2.684	-.820	-.924	-.542	-.396
18	-3.264	-3.946	-3.355	-.750	-.783	-.754	-.799
19	-3.303	-3.686	-3.304	-.712	-.676	-.681	-.537
20	-2.748	-2.978	-2.483	-.473	-.458	-.481	-.668
21	-2.400	-2.286	-2.037	-.427	-.435	-.394	-.499
22	-1.567	-1.093	-1.269	-.358	-.364	-.386	-.503
23	-.960	-.723	-.356	-.334	-.309	-.399	-.491
24	-.867	-.615	-.032	-.263	-.275	-.303	-.319
25	.693	1.025	.972	.659	1.007	1.030	-.120
26	.198	.573	.882	.182	*000.000	-.100	.083
27	-.360	.068	.363	.992	.398	.015	.089
28	-.146	.120	.317	.769	.741	.567	.262
29	.002	.498	.722	.715	.643	.527	.425
30	.157	.758	.714	.801	.744	.770	.232
31	.845	1.158	1.209	1.012	.924	1.023	.340
32	.717	1.055	1.027	.907	.880	.891	.796
33	.428	.733	.958	.896	.726	.628	.429

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.944	1.061	.667	-.540	.412	.527	-.987
2	.369	.369	.134	-1.394	-.310	-.259	-.899
3	.075	-.024	-.280	-1.787	-.877	-.594	-.969
4	-.308	-.345	-.335	-1.509	-.869	-.989	-1.041
5	-.588	-.785	-.733	-1.356	-.957	-.986	-.765
6	*000.000	*000.000	*000.000	.175	.301	-.064	-.126
7	*000.000	*000.000	*000.000	-1.231	-.798	-.474	-.331
8	*000.000	*000.000	*000.000	-1.989	-1.648	-1.015	-.355
9	*000.000	*000.000	*000.000	-2.350	-2.204	-1.285	-.293
10	-.703	-.936	-1.206	-2.020	-1.745	-.993	-.324
11	-.714	-1.097	*000.000	-.703	-.433	-.352	-.241
12	-1.008	-.862	-.762	-.266	-.263	-.322	-.264
13	-.870	-.977	-.813	-.321	-.286	-.367	-.321
14	-1.028	-1.059	-1.011	-.313	-.346	-.365	-.429
15	-.624	-3.164	-.332	.116	.068	.066	-.038
16	-2.295	-2.674	-2.081	-.688	-.712	-.760	-.731
17	-3.220	-3.443	-2.985	-.634	-.826	-.562	-.575
18	-3.636	-4.193	-3.542	-.650	-.737	-.730	-.696
19	-3.736	-4.316	-3.785	-.545	-.782	-.809	-.381
20	-3.115	-3.241	-2.805	-.594	-.486	-.546	-.595
21	-2.654	-2.438	-2.148	-.456	-.492	-.436	-.494
22	-1.593	-1.122	-1.271	-.321	-.348	-.369	-.470
23	-.987	-.769	-.506	-.289	-.311	-.354	-.376
24	-.912	-.712	-.212	-.219	-.229	-.353	-.371
25	.762	1.121	.929	.725	1.043	.909	-.196
26	.263	.642	.676	.165	*000.000	-.181	.112
27	-.364	.099	.305	.990	.748	.009	.160
28	-.186	.130	.233	.785	.750	.549	.282
29	-.065	.465	.588	.714	.649	.549	.456
30	.123	.781	.607	.788	.766	.725	.147
31	.755	1.151	.974	1.055	.925	.943	.211
32	.716	1.057	.981	.987	.894	.926	.784
33	.409	.742	.755	.768	.722	.644	.376

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.962	.973	.694	-.507	.355	.142	-.968
2	.323	.255	.031	-1.578	-.508	-.642	-1.189
3	.069	-.148	-.118	-1.731	-.826	-1.013	-1.152
4	-.340	-.473	-.387	-1.610	-.983	-1.214	-1.099
5	-.683	-.910	-.705	-1.418	-1.011	-1.043	-.677
6	*000.000	*000.000	*000.000	.075	.188	-.069	-.202
7	*000.000	*000.000	*000.000	-1.295	-.897	-.631	-.450
8	*000.000	*000.000	*000.000	-1.951	-1.659	-1.057	-.374
9	*000.000	*000.000	*000.000	-2.596	-2.280	-.978	-.168
10	-.745	-.996	-.994	-2.028	-1.413	-.459	-.240
11	-.761	-1.159	*000.000	-.762	-.427	-.356	-.283
12	-1.043	-.969	-.807	-.347	-.335	-.532	-.323
13	-1.011	-1.081	-.712	-.291	-.390	-.354	-.300
14	-1.224	-1.221	-.793	-.224	-.329	-.291	-.172
15	-.732	-3.124	-.209	-.006	-.026	.111	-.061
16	-2.448	-2.797	-2.037	-.647	-.741	-.621	-.309
17	-3.469	-4.122	-3.023	-.621	-.764	-.570	-.515
18	-4.138	-4.701	-3.507	-.679	-.761	-.611	-.492
19	-3.827	-4.305	-3.668	-.629	-.693	-.558	-.582
20	-3.346	-3.021	-2.410	-1.318	-1.421	-.758	-.646
21	-2.963	-3.060	-2.229	-.437	-.411	-.438	-.616
22	-1.625	-1.811	-1.325	-.312	-.357	-.386	-.553
23	-1.102	-.838	-.334	-.357	-.291	-.320	-.327
24	-.960	-.891	-.135	-.242	-.202	-.210	-.320
25	.815	1.140	1.072	.749	1.044	.921	-.218
26	.282	.696	.958	.249	*000.000	-.073	.111
27	-.364	.184	.500	1.088	.743	.026	.110
28	-.183	.105	.286	.799	.732	.524	.250
29	-.082	.469	.601	.735	.652	.493	.381
30	.121	.769	.717	.812	.713	.748	.179
31	.694	1.099	1.164	1.012	.882	.960	.192
32	.644	1.037	1.117	.917	.886	.846	.646
33	.382	.775	.997	.734	.725	.709	.418

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.895	.870	.537	-.547	.256	-.217	-1.094
2	.289	.108	-.274	-1.560	-.499	-.926	-1.034
3	-.050	-.197	-.492	-1.868	-.907	-1.053	-1.428
4	-.514	-.691	-.721	-1.734	-.993	-1.356	-1.060
5	-.831	-1.066	-1.104	-1.567	-1.183	-1.353	-.944
6	*000.000	*000.000	*000.000	.102	.178	-.078	-.107
7	*000.000	*000.000	*000.000	-1.370	-.914	-.627	-.364
8	*000.000	*000.000	*000.000	-2.037	-1.657	-1.137	-.311
9	*000.000	*000.000	*000.000	-2.630	-2.461	-1.314	-.266
10	-.797	-1.079	-1.309	-1.976	-1.354	-.330	-.187
11	-.930	-1.237	*000.000	-.569	-.327	-.456	-.270
12	-1.019	-.946	-.796	-.250	-.260	-.399	-.286
13	-1.094	-1.124	-.832	-.327	-.438	-.404	-.343
14	-1.329	-1.257	-.928	-.244	-.341	-.335	-.152
15	-.747	-3.053	-.303	.084	-.017	.042	-.041
16	-2.583	-2.951	-2.202	-.742	-.765	-.726	-.210
17	-3.942	-4.685	-3.585	-.961	-.932	-.780	-.404
18	-4.178	-4.655	-3.721	-.771	-.753	-.778	-.262
19	-4.285	-4.629	-3.841	-.839	-.931	-.555	-.305
20	-3.877	-4.303	-3.380	-.622	-.546	-.733	-.590
21	-2.817	-3.023	-2.199	-.410	-.510	-.203	-.349
22	-1.848	-1.888	-1.595	-.365	-.351	-.387	-.363
23	-1.077	-.887	-.454	-.290	-.304	-.332	-.366
24	-1.126	-.923	-.279	-.242	-.219	-.173	-.168
25	.856	1.205	1.007	.799	1.031	.721	-.265
26	.286	.792	.800	.234	*000.000	-.154	.140
27	-.436	.214	.328	1.098	.688	.372	.222
28	-.229	.128	.220	.814	.722	.349	.214
29	-.147	.484	.569	.715	.591	.513	.378
30	.093	.791	.633	.798	.664	.699	.158
31	.681	1.161	1.033	1.049	.877	.898	.164
32	.614	1.063	.948	.899	.898	.954	.721
33	.389	.802	.794	.679	.720	.641	.474

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.901	.843	.329	-.597	.282	-.633	-1.254
2	.145	-.002	-.352	-1.539	-.616	-1.256	-1.176
3	-.170	-.338	-.450	-1.627	-.858	-1.220	-1.041
4	-.607	-.840	-.856	-1.782	-1.020	-1.383	-1.001
5	-.865	-1.150	-1.015	-1.524	-1.131	-1.263	-.726
6	*000.000	*000.000	*000.000	.071	.192	-.108	-.121
7	*000.000	*000.000	*000.000	-1.235	-.859	-.688	-.354
8	*000.000	*000.000	*000.000	-2.035	-1.724	-1.071	-.454
9	*000.000	*000.000	*000.000	-2.370	-1.958	-.993	-.357
10	-.932	-1.102	-1.182	-1.850	-.934	-.286	-.203
11	-.950	-1.219	*000.000	-.789	-.660	-.470	-.295
12	-1.051	-.964	-.734	-.264	-.237	-.238	-.314
13	-1.111	-1.092	-.747	-.237	-.305	-.253	-.417
14	-1.372	-1.246	-.840	-.262	-.308	-.322	-.251
15	-.995	-2.992	-.125	.220	.128	.095	-.167
16	-2.616	-2.997	-2.213	-.668	-.685	-.624	-.375
17	-3.852	-4.325	-3.040	-.713	-.956	-.721	-.532
18	-4.500	-4.908	-3.347	-.584	-.599	-.482	-.410
19	-4.238	-5.028	-3.648	-.472	-.558	-.442	-.422
20	-3.710	-4.116	-2.632	-.365	-.416	-.227	-.480
21	-2.661	-3.120	-2.189	-.584	-.526	-.396	-.340
22	-1.568	-1.994	-1.498	-.337	-.301	-.404	-.500
23	-1.065	-.716	-.394	-.257	-.222	-.347	-.340
24	-1.125	-.330	-.095	-.155	-.187	-.164	-.240
25	.755	1.188	.981	.633	1.011	.333	-.461
26	.260	.895	.917	.077	*000.000	-.193	.033
27	-.350	.255	.439	.947	.578	.271	.019
28	-.274	.112	.231	.742	.664	.396	.129
29	-.204	.441	.524	.579	.522	.408	.163
30	.009	.782	.671	.736	.649	.724	.116
31	.620	1.127	1.063	.926	.835	.772	.137
32	.594	1.103	1.107	.769	.893	.806	.607
33	.324	.778	.836	.543	.662	.582	.252

Table 11. - Continued.

(a) $C_{T,S} = 0.90$, $q_S = 20.20$

$\alpha = 65°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.827	.748	.211	-.590	.199	-.771	-1.327
2	.079	-.092	-.356	-1.472	-.553	-1.454	-1.001
3	-.234	-.415	-.522	-1.648	-.926	-1.704	-1.487
4	-.776	-.907	-.719	-1.635	-1.138	-1.599	-.998
5	-1.055	-1.313	-1.112	-1.649	-1.211	-1.643	-.706
6	*000.000	*000.000	*000.000	.090	.207	-.170	-.106
7	*000.000	*000.000	*000.000	-1.274	-.819	-.712	-.345
8	*000.000	*000.000	*000.000	-1.832	-1.401	-1.006	-.306
9	*000.000	*000.000	*000.000	-2.049	-1.797	-.740	-.137
10	-.988	-1.143	-1.144	-1.603	-.845	-.362	-.101
11	-1.042	-1.212	*000.000	-.352	-.222	-.297	-.186
12	-1.021	-1.007	-.725	-.260	-.300	-.287	-.148
13	-1.180	-1.112	-.673	-.229	-.265	-.352	-.257
14	-1.522	-1.395	-.874	-.244	-.274	-.244	-.241
15	-.918	-2.684	-.137	.146	.124	.077	-.056
16	-2.778	-2.945	-1.746	-.475	-.624	-.591	-.435
17	-3.989	-4.719	-2.902	-.661	-.825	-.455	-.239
18	-4.407	-4.852	-3.247	-.571	-.590	-.568	-.298
19	-4.578	-4.883	-3.250	-.456	-.650	-.474	-.360
20	-3.521	-4.106	-2.835	-.445	-.387	-.394	-.423
21	-3.280	-3.291	-2.137	-.353	-.328	-.370	-.316
22	-2.217	-1.920	-1.145	-.203	-.274	-.387	-.317
23	-1.068	-.819	-.585	-.317	-.300	-.352	-.279
24	-1.170	-.079	-.059	-.119	-.086	-.197	-.219
25	.741	1.206	.820	.788	.976	.407	-.334
26	.278	.906	1.003	.030	*000.000	-.145	.100
27	-.485	.264	.461	.966	.574	.284	.199
28	-.349	.102	.270	.732	.618	.320	.157
29	-.245	.458	.531	.681	.531	.340	.217
30	-.027	.807	.721	.668	.619	.622	-.001
31	.587	1.152	1.119	.945	.874	.831	.060
32	.599	1.141	1.094	.743	.892	.776	.547
33	.345	.869	.920	.591	.748	.539	.399

$\alpha = 70°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.760	.756	.298	-.393	.267	-1.022	-1.256
2	-.005	-.127	-.362	-1.450	-.579	-1.616	-1.198
3	-.278	-.528	-.486	-1.508	-1.004	-1.688	-1.534
4	-.855	-.998	-.958	-1.820	-1.138	-1.610	-1.135
5	-1.037	-1.226	-.929	-1.423	-1.037	-1.074	-.411
6	*000.000	*000.000	*000.000	.026	.168	-.059	-.047
7	*000.000	*000.000	*000.000	-1.262	-.752	-.483	-.215
8	*000.000	*000.000	*000.000	-1.727	-1.503	-.912	-.225
9	*000.000	*000.000	*000.000	-2.453	-2.063	-.706	-.105
10	-1.111	-1.193	-1.081	-1.434	-.640	-.213	-.072
11	-1.174	-1.248	*000.000	-.330	-.249	-.332	-.167
12	-1.035	-1.061	-.685	-.268	-.245	-.303	-.338
13	-1.257	-1.144	-.621	-.216	-.304	-.271	-.225
14	-1.546	-1.367	-.826	-.239	-.314	-.276	-.253
15	-.994	-2.857	-.093	.076	.114	.106	-.166
16	-2.775	-2.836	-1.579	-.487	-.519	-.336	-.089
17	-4.025	-4.570	-2.702	-.688	-.660	-.266	-.079
18	-4.289	-3.649	-1.712	-.579	-.576	-.491	-.294
19	-4.393	-4.258	-2.423	-.457	-.471	-.327	-.187
20	-3.685	-3.916	-2.316	-.317	-.461	-.430	-.378
21	-2.850	-2.912	-1.634	-.332	-.293	-.184	-.333
22	-2.013	-1.788	-1.063	-.181	-.323	-.227	-.177
23	-1.175	-.616	-.337	-.243	-.158	-.089	-.146
24	-1.181	-.122	-.081	-.191	-.081	-.083	-.056
25	.719	1.224	.846	.760	.994	-.013	-.676
26	.242	.895	.956	.019	*000.000	-.070	.081
27	-.526	.276	.524	.939	.468	.268	.245
28	-.365	.090	.307	.681	.626	.274	.148
29	-.292	.426	.505	.581	.458	.297	.242
30	-.124	.787	.768	.610	.572	.709	.016
31	.511	1.127	1.115	.867	.840	.821	.075
32	.519	1.069	1.051	.830	.851	.786	.567
33	.222	.744	.828	.489	.627	.440	.264

$\alpha = 75°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.802	.738	.201	-.407	.353	-.947	-1.248
2	-.057	-.240	-.601	-1.512	-.599	-1.632	-1.243
3	-.629	-.591	-.669	-1.679	-.986	-1.443	-.745
4	-.745	-.881	-.810	-1.541	-1.119	-1.685	-.816
5	-1.188	-1.322	-1.062	-1.522	-1.188	-1.127	-.417
6	*000.000	*000.000	*000.000	-.041	-.007	-.114	-.048
7	*000.000	*000.000	*000.000	-1.062	-.738	-.605	-.210
8	*000.000	*000.000	*000.000	-1.784	-1.513	-.817	-.208
9	*000.000	*000.000	*000.000	-2.034	-2.028	-.404	-.008
10	-1.133	-1.265	-1.207	-1.247	-.906	-.293	-.236
11	-1.182	-1.225	*000.000	-.435	-.352	-.205	-.047
12	-.945	-.968	-.652	-.263	-.277	-.212	-.128
13	-1.154	-1.049	-.610	-.208	-.240	-.151	-.249
14	-1.461	-1.303	-.706	-.314	-.317	-.125	-.279
15	-.967	-2.882	-.015	.074	.026	.143	-.222
16	-2.467	-2.474	-1.235	-.452	-.553	-.253	-.269
17	-3.579	-3.979	-2.265	-.548	-.652	-.284	-.484
18	-4.320	-4.199	-2.390	-.471	-.772	-.508	-.288
19	-4.310	-4.545	-2.780	-.486	-.627	-.200	-.237
20	-3.712	-3.987	-2.518	-.429	-.427	-.246	-.238
21	-2.700	-2.830	-1.768	-.341	-.405	-.276	-.343
22	-1.932	-1.770	-1.052	-.262	-.400	-.113	-.255
23	-1.009	-.415	-.310	-.114	-.179	-.224	-.197
24	-1.131	-.063	-.068	-.113	-.157	-.101	-.102
25	.711	1.191	.744	.753	.876	.244	-.690
26	.219	.943	.930	.010	*000.000	-.052	.004
27	-.455	.244	.508	.939	.374	.303	.059
28	-.283	.073	.255	.704	.511	.255	.137
29	-.266	.389	.495	.552	.409	.319	.188
30	-.049	.738	.653	.462	.497	.701	.061
31	.558	1.102	.986	.888	.737	.711	.163
32	.542	1.129	1.098	.674	.810	.880	.369
33	.225	.740	.839	.454	.583	.502	.214

$\alpha = 80°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.857	.747	.225	-.387	.325	-.644	-1.112
2	.055	-.206	-.374	-1.505	-.616	-1.597	-1.209
3	-.351	-.518	-.379	-1.379	-.750	-1.458	-1.273
4	-.764	-.984	-.713	-1.700	-1.160	-1.572	-.639
5	-1.041	-1.229	-.780	-1.435	-1.176	-.936	-.168
6	*000.000	*000.000	*000.000	-.035	-.027	-.079	-.104
7	*000.000	*000.000	*000.000	-1.295	-.888	-.510	-.056
8	*000.000	*000.000	*000.000	-1.818	-1.647	-.770	-.203
9	*000.000	*000.000	*000.000	-2.361	-2.147	-.716	-.122
10	-1.074	-1.129	-.887	-1.324	-.830	-.278	-.091
11	-1.204	-1.309	*000.000	-.560	-.371	-.355	-.012
12	-.852	-1.011	-.618	-.370	-.349	-.375	-.388
13	-1.038	-1.170	-.782	-.455	-.707	-.362	-.316
14	-1.158	-1.161	-.599	-.206	-.388	-.243	-.407
15	-.898	-2.825	-.029	.104	.147	.258	-.133
16	-2.620	-3.062	-2.042	-.764	-.611	-.317	-.248
17	-3.643	-4.185	-2.293	-.474	-.597	-.341	-.190
18	-4.143	-4.466	-2.678	-.537	-.679	-.465	-.362
19	-4.007	-4.297	-2.566	-.434	-.591	-.439	-.301
20	-3.459	-3.665	-2.547	-.474	-.512	-.214	-.208
21	-2.647	-2.664	-1.567	-.384	-.444	-.192	-.276
22	-1.534	-1.598	-.852	-.230	-.274	-.202	-.241
23	-.785	-.729	-.398	-.222	-.208	-.184	-.226
24	-1.007	-.201	-.121	-.137	-.092	-.044	-.128
25	.666	1.102	.775	.686	.845	-.097	-.502
26	.189	.828	.829	-.066	*000.000	-.268	-.106
27	-.534	.157	.414	.833	.379	.211	.006
28	-.342	.035	.250	.630	.527	.334	.085
29	-.218	.389	.520	.574	.419	.369	.253
30	-.060	.694	.670	.459	.437	.570	-.097
31	.516	1.123	1.037	.775	.766	.734	.118
32	.485	1.037	1.062	.610	.774	.714	.396
33	.249	.654	.838	.426	.570	.459	.130

Table 11. - Continued.

(b) $C_{T,S} = 0.80$, $q_s = 20.00$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.115	1.104	.382	.658	1.184	1.135	.772
2	1.039	1.123	.712	.449	.939	.964	.541
3	.855	1.019	.791	.381	.774	.863	.406
4	.478	.667	.568	.328	.452	.456	.150
5	.048	.225	.226	.094	.122	.147	-.099
6	*000.000	*000.000	*000.000	.215	.077	.134	.074
7	*000.000	*000.000	*000.000	-.199	-.065	.066	-.059
8	*000.000	*000.000	*000.000	-.939	-.926	-.763	-.661
9	*000.000	*000.000	*000.000	-1.804	-1.827	-1.513	-1.132
10	-.293	-.338	-.462	-1.875	-1.522	-1.247	-.807
11	-.516	-.754	*000.000	-1.327	-1.261	-.931	-.659
12	-.727	-.655	-.663	-.922	-.906	-.621	-.436
13	-.416	-.670	-.676	-.732	-.773	-.587	-.374
14	-.552	-.695	-.606	-.737	-.808	-.627	-.408
15	-.117	-2.474	.124	-.086	-.110	-.008	-.039
16	-1.392	-1.562	-1.116	-1.507	-1.880	-1.731	-1.017
17	-2.154	-2.430	-1.667	-2.253	-2.414	-2.181	-1.441
18	-2.526	-2.407	-1.952	-2.273	-2.747	-2.716	-1.675
19	-2.547	-2.491	-1.710	-2.230	-2.728	-2.668	-1.826
20	-2.050	-1.794	-1.038	-1.402	-1.633	-1.863	-1.344
21	-1.466	-.745	-.429	-.620	-1.079	-1.376	-1.089
22	-1.044	-.387	-.401	-.327	-.389	-.692	-.903
23	-.685	-.240	-.269	-.262	-.211	-.365	-.589
24	-.674	-.268	-.361	-.264	-.307	-.401	-.413
25	.226	.080	-.323	.585	.673	.541	.496
26	-.483	-.768	-.562	-.029	*000.000	.143	.137
27	-.682	-.562	-.333	.404	.124	.208	.021
28	-.166	-.100	.115	.707	.467	.147	.247
29	.133	.484	.427	.584	.737	.659	.562
30	.148	.543	.469	.745	.803	.860	.558
31	1.004	.949	.582	.946	1.092	.995	.582
32	.491	1.093	.707	.972	1.073	1.034	.896
33	.578	.800	.494	.675	.842	.759	.788

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.154	1.263	.761	.315	1.126	1.145	.795
2	.921	1.139	.803	.015	.712	.783	.545
3	.753	.911	.735	-.140	.420	.612	.278
4	.318	.514	.423	-.194	.078	.210	.005
5	-.070	.021	.028	-.269	-.224	-.100	-.189
6	*000.000	*000.000	*000.000	.256	.104	.083	.054
7	*000.000	*000.000	*000.000	-.465	-.323	-.166	-.114
8	*000.000	*000.000	*000.000	-1.314	-1.278	-.998	-.803
9	*000.000	*000.000	*000.000	-2.254	-2.350	-1.882	-1.367
10	-.471	-.469	-.518	-1.862	-1.667	-1.367	-.923
11	-.545	-.823	*000.000	-1.285	-1.364	-1.056	-.699
12	-.908	-.711	-.691	-.906	-.937	-.639	-.466
13	-.506	-.679	-.660	-.729	-.771	-.597	-.364
14	-.646	-.758	-.687	-.708	-.834	-.597	-.438
15	-.148	-2.394	.041	-.074	-.100	.015	.066
16	-1.597	-1.767	-1.340	-1.576	-1.908	-1.646	-1.063
17	-2.345	-2.573	-1.822	-2.141	-2.506	-2.210	-1.444
18	-2.801	-2.924	-2.304	-2.318	-2.759	-2.635	-1.775
19	-2.723	-2.651	-1.877	-2.158	-2.528	-2.578	-1.810
20	-2.149	-1.720	-1.011	-2.140	-1.800	-1.665	-1.500
21	-1.651	-.724	-.474	-.744	-1.108	-1.476	-1.206
22	-1.102	-.356	-.359	-.291	-.353	-.975	-.838
23	-.650	-.319	-.313	-.202	-.209	-.345	-.673
24	-.652	-.241	-.340	-.203	-.270	-.408	-.238
25	.399	.411	-.125	.728	.915	.737	.591
26	-.260	-.376	-.333	.155	*000.000	.100	.202
27	-.533	-.409	-.169	.697	.056	.242	-.059
28	-.190	-.036	.237	.740	.979	.284	.443
29	.127	.572	.579	.702	.766	.720	.765
30	.180	.634	.645	.750	.805	.823	.817
31	.976	1.137	.705	1.046	1.089	1.143	.536
32	.844	1.074	.730	.976	1.018	1.022	.990
33	.548	.748	.593	.765	.837	.755	.559

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.172	1.247	.661	.013	.951	1.105	.619
2	.747	.912	.662	-.455	.415	.596	.165
3	.504	.673	.511	-.617	.087	.311	.031
4	.178	.200	.151	-.686	-.211	-.027	-.304
5	-.224	-.270	-.179	-.649	-.471	-.313	-.492
6	*000.000	*000.000	*000.000	.244	.097	-.006	-.048
7	*000.000	*000.000	*000.000	-.833	-.591	-.469	-.446
8	*000.000	*000.000	*000.000	-1.838	-1.738	-1.424	-1.212
9	*000.000	*000.000	*000.000	-2.494	-2.625	-2.206	-1.747
10	-.498	-.619	-.758	-2.187	-1.989	-1.653	-1.198
11	-.569	-.959	*000.000	-1.379	-1.488	-1.137	-.787
12	-.954	-.780	-.736	-.885	-.934	-.729	-.470
13	-.598	-.803	-.692	-.720	-.818	-.662	-.448
14	-.829	-.845	-.756	-.819	-.938	-.688	-.508
15	-.290	-2.411	.028	-.091	-.098	-.017	-.030
16	-1.852	-2.000	-1.550	-1.692	-2.133	-1.786	-1.231
17	-2.500	-2.960	-2.136	-1.832	-2.287	-2.000	-1.489
18	-2.916	-3.026	-2.338	-2.268	-2.752	-2.414	-1.736
19	-3.030	-3.020	-2.284	-2.200	-2.525	-2.491	-1.770
20	-2.447	-2.119	-1.537	-1.807	-2.124	-2.083	-1.493
21	-2.141	-1.079	-.525	-1.236	-1.622	-1.517	-1.307
22	-1.412	-.526	-.356	-.687	-.595	-.615	-.945
23	-.780	-.336	-.342	-.201	-.253	-.297	-.588
24	-.710	-.351	-.420	-.211	-.267	-.294	-.324
25	.667	.779	.439	.757	1.028	.877	.607
26	-.032	.055	.310	.246	*000.000	-.150	.079
27	-.410	-.139	.168	.891	.275	.117	-.164
28	-.174	.048	.362	.814	.887	.806	.479
29	.142	.504	.626	.715	.743	.688	.597
30	.232	.730	.708	.866	.841	.846	.699
31	.891	1.182	.728	1.021	1.069	1.018	.500
32	.854	1.073	.959	.985	1.033	1.015	.904
33	.561	.824	.750	.889	.895	.766	.627

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.169	1.275	.714	-.262	.768	1.059	.415
2	.652	.697	.457	-1.028	.059	.413	-.123
3	.339	.398	.217	-1.210	-.361	.003	-.311
4	-.093	-.049	-.129	-1.160	-.593	-.458	-.566
5	-.477	-.513	-.511	-1.082	-.818	-.626	-.765
6	*000.000	*000.000	*000.000	.211	.216	-.027	-.094
7	*000.000	*000.000	*000.000	-1.185	-.884	-.660	-.593
8	*000.000	*000.000	*000.000	-2.049	-2.030	-1.646	-1.293
9	*000.000	*000.000	*000.000	-2.825	-3.015	-2.600	-2.042
10	-.592	-.819	-.987	-2.599	-2.241	-1.930	-1.439
11	-.672	-.991	*000.000	-1.317	-1.540	-1.224	-.874
12	-1.084	-.805	-.874	-.902	-1.018	-.759	-.491
13	-.739	-.869	-.889	-.663	-.898	-.751	-.471
14	-.884	-.976	-.845	-.788	-.971	-.710	-.589
15	-.503	-2.396	-.169	-.088	-.227	-.152	-.075
16	-2.000	-2.253	-1.736	-1.508	-2.203	-1.792	-1.186
17	-2.832	-3.322	-2.627	-1.755	-2.809	-2.317	-1.543
18	-3.339	-3.440	-2.724	-1.964	-3.206	-2.834	-1.811
19	-3.328	-3.478	-2.767	-1.677	-3.006	-2.629	-1.733
20	-2.825	-2.444	-2.052	-1.377	-2.284	-2.279	-1.614
21	-2.252	-1.451	-.992	-.919	-1.616	-1.554	-1.219
22	-1.532	-.652	-.603	-.756	-1.011	-1.177	-1.098
23	-.890	-.395	-.412	-.120	-.249	-.337	-.462
24	-.810	-.512	-.336	-.123	.090	-.172	-.339
25	.825	.996	.632	.735	1.089	.941	.492
26	.230	.381	.617	.278	*000.000	-.135	-.024
27	-.312	.068	.274	1.055	.481	.020	-.060
28	-.139	.152	.367	.830	.860	.751	.516
29	.093	.611	.661	.790	.756	.678	.619
30	.217	.837	.727	.834	.809	.830	.219
31	.867	1.240	1.036	1.068	1.069	1.036	.384
32	.851	1.093	.968	1.032	1.030	1.015	.904
33	.623	.847	.723	1.092	.905	.777	.584

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.099	1.051	.558	-.636	.409	.839	.019
2	.452	.396	.094	-1.530	-.446	.027	-.322
3	.132	.046	-.136	-1.837	-.898	-.425	-.672
4	-.308	-.457	-.393	-1.744	-1.035	-.693	-.754
5	-.582	-.834	-.846	-1.484	-1.145	-.945	-.949
6	*000.000	*000.000	*000.000	.152	.316	-.057	-.083
7	*000.000	*000.000	*000.000	-1.434	-1.157	-.869	-.748
8	*000.000	*000.000	*000.000	-2.305	-2.262	-1.784	-1.513
9	*000.000	*000.000	*000.000	-3.176	-3.358	-2.740	-2.005
10	-.702	-.976	-1.179	-2.551	-2.237	-1.939	-1.347
11	-.728	-1.159	*000.000	-1.275	-1.582	-1.266	-.792
12	-1.182	-.921	-.910	-.900	-1.052	-.764	-.429
13	-.862	-.998	-.922	-.583	-.841	-.680	-.420
14	-1.080	-1.019	-.895	-.760	-.891	-.690	-.406
15	-.582	-2.287	-.146	-.049	-.138	-.054	.014
16	-2.281	-2.289	-1.812	-1.708	-2.067	-1.712	-.988
17	-3.179	-3.542	-2.799	-1.663	-2.636	-2.082	-1.347
18	-3.724	-3.749	-3.096	-1.702	-2.918	-2.607	-1.596
19	-3.605	-3.472	-2.961	-1.774	-2.759	-2.430	-1.255
20	-3.218	-2.754	-1.875	-1.296	-2.143	-2.035	-1.428
21	-2.571	-1.581	-1.049	-.958	-1.470	-1.261	-.952
22	-1.649	-.834	-.494	-.702	-.764	-.826	-.817
23	-1.023	-.550	-.368	-.248	-.189	-.351	-.523
24	-.945	-.606	-.473	-.202	.101	-.147	-.314
25	.975	1.092	.821	.627	1.069	1.049	.353
26	.388	.703	.866	.281	*000.000	-.294	.062
27	-.178	.247	.437	1.042	.795	-.008	.225
28	-.122	.216	.430	.832	.865	.702	.553
29	.105	.552	.665	.786	.782	.661	.553
30	.184	.824	.649	.730	.755	.739	.283
31	.846	1.239	1.094	1.077	1.072	1.028	.376
32	.808	1.128	1.062	1.035	.987	.967	.929
33	.608	.834	.800	.930	.834	.743	.577

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.958	.854	.257	-.404	.198	.673	-.547
2	.257	.042	-.362	-2.002	-.719	-.181	-.808
3	-.047	-.268	-.557	-1.988	-1.034	-.391	-.932
4	-.458	-.731	-.865	-2.076	-1.244	-.867	-1.189
5	-.792	-1.083	-1.099	-1.792	-1.359	-1.050	-1.050
6	*000.000	*000.000	*000.000	.171	.235	-.030	-.042
7	*000.000	*000.000	*000.000	-1.517	-1.195	-.847	-.655
8	*000.000	*000.000	*000.000	-2.613	-2.369	-1.702	-1.142
9	*000.000	*000.000	*000.000	-3.055	-3.101	-2.322	-1.273
10	-.780	-1.077	-1.422	-2.691	-1.981	-1.242	-.411
11	-.825	-1.252	*000.000	-1.299	-1.505	-.948	-.607
12	-1.270	-1.048	-1.030	-.803	-.799	-.641	-.497
13	-.935	-1.106	-.998	-.482	-.576	-.666	-.473
14	-1.199	-1.151	-1.135	-.697	-.649	-.622	-.413
15	-.773	-2.413	-.360	-.144	-.162	.020	-.133
16	-2.552	-2.492	-2.157	-1.421	-1.706	-1.225	-.718
17	-3.768	-3.948	-3.064	-1.426	-2.175	-1.985	-1.548
18	-4.093	-3.862	-3.360	-1.945	-2.142	-1.453	-1.044
19	-4.248	-4.068	-3.897	-1.092	-1.016	-1.336	-.542
20	-3.510	-2.836	-2.981	-.643	-.544	-.578	-.483
21	-2.805	-1.820	-1.675	-.583	-.562	-.462	-.374
22	-1.649	-.801	-.585	-.461	-.544	-.410	-.406
23	-1.232	-.705	-.486	-.325	-.224	-.419	-.443
24	-1.013	-.584	-.599	.020	-.055	-.179	-.232
25	1.078	1.189	.696	.612	1.083	1.092	.006
26	.505	.909	.961	.378	*000.000	-.205	-.056
27	-.100	.345	.517	1.129	.745	.314	.126
28	-.091	.284	.303	.928	.927	.691	.336
29	.054	.536	.582	.781	.747	.601	.475
30	.226	.833	.707	.888	.810	.814	.133
31	.802	1.232	1.138	1.120	1.063	1.077	.295
32	.766	1.068	.915	1.056	.962	.961	.760
33	.553	.792	.825	.893	.826	.667	.464

Table 11.- Continued.

(b) $C_{T,S} = 0.80$, $q_s = 20.00$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.889	.668	.082	-1.116	.199	.737	-.709
2	.036	-.320	-.686	-2.207	-.819	-.268	-1.171
3	-.310	-.707	-.815	-2.356	-1.352	-.678	-1.264
4	-.696	-1.143	-1.190	-2.347	-1.478	-.968	-1.179
5	-1.075	-1.491	-1.319	-2.089	-1.542	-1.099	-1.154
6	*000.000	*000.000	*000.000	.128	.244	.027	-.140
7	*000.000	*000.000	*000.000	-1.678	-1.221	-.709	-.535
8	*000.000	*000.000	*000.000	-2.829	-2.492	-1.599	-.959
9	*000.000	*000.000	*000.000	-3.383	-3.241	-2.134	-.901
10	-.964	-1.358	-1.411	-2.887	-2.292	-1.572	-.823
11	-.948	-1.380	*000.000	-1.187	-1.229	-.549	-.407
12	-1.220	-1.013	-.906	-.708	-.440	-.315	-.332
13	-1.130	-1.173	-1.018	-.624	-.595	-.497	-.482
14	-1.394	-1.257	-1.051	-.626	-.623	-.437	-.298
15	-.860	-2.229	-.243	.033	-.003	.122	-.014
16	-2.843	-2.857	-2.306	-1.216	-1.267	-.763	-.644
17	-3.648	-3.906	-3.202	-1.153	-.927	-.652	-.520
18	-4.479	-4.314	-3.507	-1.927	-1.824	-.878	-.715
19	-4.751	-4.422	-3.898	-1.148	-.843	-.642	-.632
20	-3.849	-3.638	-2.989	-.894	-.661	-.574	-.562
21	-2.910	-2.304	-1.694	-.848	-.640	-.384	-.316
22	-1.643	-1.115	-.611	-.551	-.548	-.390	-.455
23	-1.275	-.729	-.353	-.296	-.350	-.306	-.383
24	-1.078	-.713	-.469	-.216	-.255	-.212	-.271
25	1.044	1.188	.757	.585	.993	1.019	-.221
26	.604	.993	1.029	.420	*000.000	-.093	-.049
27	-.034	.466	.677	1.063	.967	.316	.234
28	-.089	.318	.506	.871	.820	.654	.284
29	.018	.549	.700	.767	.667	.607	.413
30	.136	.872	.829	.846	.780	.813	.064
31	.693	1.202	1.159	1.111	.990	1.015	.226
32	.766	1.136	1.151	1.079	1.009	1.023	.714
33	.541	.796	.955	.865	.746	.636	.410

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.756	.397	-.183	-1.354	-.117	.459	-.965
2	-.179	-.620	-.974	-2.590	-1.285	-.875	-1.315
3	-.487	-1.036	-1.174	-2.713	-1.640	-1.119	-1.397
4	-.877	-1.396	-1.526	-2.523	-1.634	-1.171	-1.095
5	-1.139	-1.643	-1.550	-2.165	-1.599	-1.329	-.863
6	*000.000	*000.000	*000.000	.107	.189	-.116	-.204
7	*000.000	*000.000	*000.000	-1.866	-1.471	-.923	-.652
8	*000.000	*000.000	*000.000	-2.816	-2.512	-1.595	-.971
9	*000.000	*000.000	*000.000	-3.486	-3.434	-2.371	-.996
10	-1.038	-1.408	-1.544	-2.790	-2.109	-1.315	-.487
11	-1.033	-1.457	*000.000	-1.249	-1.360	-.753	-.509
12	-1.382	-1.152	-1.033	-.703	-.403	-.370	-.357
13	-1.157	-1.238	-1.056	-.540	-.493	-.427	-.401
14	-1.601	-1.392	-1.122	-.439	-.439	-.277	-.339
15	-1.074	-2.355	-.276	-.007	-.024	0.	-.201
16	-2.984	-3.135	-2.452	-1.135	-1.088	-.856	-.770
17	-4.075	-4.274	-3.400	-.953	-.923	-.636	-.642
18	-4.822	-4.545	-3.882	-1.370	-.901	-.732	-.672
19	-4.886	-4.924	-4.372	-.941	-.837	-.639	-.540
20	-3.718	-3.566	-2.746	-1.004	-.761	-.542	-.519
21	-2.623	-2.425	-2.483	-.702	-.621	-.517	-.461
22	-1.469	-1.360	-1.077	-.680	-.580	-.542	-.449
23	-1.259	-.847	-.457	-.429	-.408	-.390	-.381
24	-1.205	-.829	-.611	-.234	-.341	-.313	-.400
25	1.123	1.259	.858	.470	1.062	1.052	-.450
26	.674	1.149	1.227	.515	*000.000	-.251	-.080
27	-.026	.567	.808	1.080	1.013	.289	.018
28	-.075	.362	.592	.933	.865	.666	.262
29	-.014	.590	.735	.821	.735	.565	.290
30	.087	.884	.875	.880	.804	.794	.030
31	.632	1.215	1.208	1.136	.990	1.103	.134
32	.704	1.114	1.154	1.141	.987	.878	.559
33	.496	.801	.979	.917	.796	.591	.353

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.680	.186	-.509	-1.516	-.259	-.022	-1.129
2	-.386	-.920	-1.464	-2.772	-1.506	-1.149	-1.244
3	-.707	-1.274	-1.536	-2.878	-1.808	-1.439	-1.166
4	-1.187	-1.701	-1.879	-3.009	-2.041	-1.478	-.789
5	-1.455	-1.871	-1.761	-2.373	-1.859	-1.457	-.729
6	*000.000	*000.000	*000.000	.075	.163	-.005	-.196
7	*000.000	*000.000	*000.000	-1.525	-1.331	-.864	-.344
8	*000.000	*000.000	*000.000	-2.382	-2.273	-1.415	-.676
9	*000.000	*000.000	*000.000	-2.788	-3.023	-1.854	-.638
10	-1.137	-1.477	-1.593	-2.486	-1.501	-.468	-.266
11	-1.082	-1.507	*000.000	-.986	-.676	-.292	-.335
12	-1.372	-1.171	-1.023	-.536	-.419	-.381	-.304
13	-1.402	-1.335	-1.088	-.437	-.467	-.305	-.196
14	-1.830	-1.551	-1.201	-.479	-.451	-.421	-.420
15	-1.119	-2.149	-.325	.087	.119	.142	-.164
16	-3.040	-3.170	-2.568	-1.212	-1.241	-.598	-.376
17	-4.474	-4.852	-3.263	-.704	-.775	-.689	-.662
18	-4.957	-5.302	-4.609	-1.069	-.872	-.683	-.584
19	-4.815	-4.977	-4.091	-.896	-.738	-.546	-.452
20	-3.881	-4.237	-3.500	-.720	-.643	-.413	-.415
21	-2.720	-3.082	-2.698	-.637	-.357	-.337	-.391
22	-1.914	-2.220	-1.670	-.442	-.350	-.197	-.405
23	-1.295	-.980	-.472	-.265	-.300	-.300	-.317
24	-1.098	-.905	-.688	-.167	-.196	-.243	-.201
25	1.128	1.213	.616	.470	1.088	.923	-.588
26	.721	1.141	1.151	.517	*000.000	-.070	-.010
27	.002	.633	.834	1.086	.987	.300	.128
28	-.081	.380	.562	.929	.876	.495	.209
29	-.100	.574	.673	.810	.698	.490	.264
30	-.045	.897	.866	.880	.797	.793	-.014
31	.535	1.174	1.144	1.137	1.013	.961	.002
32	.654	1.134	1.186	1.042	1.004	.954	.532
33	.451	.813	.975	.770	.791	.670	.324

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.490	.013	-.679	-1.462	-.253	-.796	-1.134
2	-.589	-1.150	-1.608	-2.684	-1.329	-1.638	-1.237
3	-.877	-1.597	-1.865	-2.988	-1.975	-1.737	-1.008
4	-1.282	-1.775	-1.811	-2.653	-1.875	-1.820	-.821
5	-1.439	-1.884	-1.787	-2.074	-1.665	-1.423	-.535
6	*000.000	*000.000	*000.000	.156	.136	-.090	-.031
7	*000.000	*000.000	*000.000	-1.718	-1.371	-.908	-.324
8	*000.000	*000.000	*000.000	-2.680	-2.661	-1.466	-.449
9	*000.000	*000.000	*000.000	-1.968	-2.983	-1.757	-.288
10	-1.305	-1.637	-1.710	-1.488	-1.485	-.539	-.311
11	-1.217	-1.489	*000.000	-.752	-.270	-.325	-.303
12	-1.280	-1.151	-.868	-.526	-.275	-.311	-.062
13	-1.497	-1.357	-.999	-.453	-.383	-.306	-.210
14	-1.905	-1.527	-.903	-.279	-.319	-.333	-.292
15	-1.296	-2.169	-.215	.092	.087	.117	-.040
16	-3.197	-3.456	-2.383	-.892	-.839	-.720	-.633
17	-4.419	-4.898	-3.307	-.753	-.880	-.632	-.567
18	-5.351	-5.513	-3.641	-.640	-.635	-.541	-.589
19	-4.677	-5.215	-4.035	-.703	-.596	-.649	-.204
20	-3.684	-4.445	-3.615	-.704	-.447	-.462	-.364
21	-3.119	-3.528	-2.592	-.569	-.439	-.436	-.220
22	-1.718	-2.217	-1.680	-.357	-.365	-.335	-.375
23	-1.388	-.900	-.561	-.355	-.294	-.448	-.349
24	-1.403	-.490	-.101	-.238	-.227	-.274	-.340
25	1.153	1.168	.664	.409	1.075	.106	-.725
26	.706	1.163	1.093	.501	*000.000	-.215	-.095
27	-.025	.699	.908	1.072	.948	.516	.386
28	-.140	.388	.581	.887	.820	.378	.104
29	-.160	.563	.657	.730	.627	.360	.246
30	-.188	.896	.851	.823	.740	.816	.172
31	.479	1.203	1.197	1.108	.955	.983	.094
32	.601	1.152	1.181	1.051	.985	.967	.648
33	.350	.833	.949	.687	.751	.504	.473

Table 11. - Continued.

(b) $C_{T,s} = 0.80$, $q_s = 20.00$

$\alpha = 55°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.395	-.150	-.846	-1.300	-.455	-1.319	-1.251
2	-.702	-1.314	-1.733	-2.771	-1.718	-1.824	-1.318
3	-1.051	-1.555	-1.818	-2.635	-1.819	-1.825	-.911
4	-1.423	-1.963	-2.030	-2.593	-2.017	-1.813	-.636
5	-1.621	-2.030	-1.830	-2.042	-1.766	-1.212	-.583
6	*000.000	*000.000	*000.000	.157	.123	-.014	-.098
7	*000.000	*000.000	*000.000	-1.424	-1.278	-.692	-.293
8	*000.000	*000.000	*000.000	-1.967	-2.045	-.973	-.290
9	*000.000	*000.000	*000.000	-1.433	-1.966	-.528	-.272
10	-1.334	-1.618	-1.559	-.893	-.685	-.262	-.205
11	-1.254	-1.496	*000.000	-.656	-.250	-.200	-.094
12	-1.213	-1.225	-.826	-.401	-.300	-.174	-.124
13	-1.472	-1.322	-.804	-.311	-.288	-.184	-.132
14	-1.851	-1.504	-.899	-.330	-.287	-.116	-.133
15	-1.279	-2.027	-.146	.002	.027	.096	-.210
16	-3.433	-3.378	-1.960	-.715	-.731	-.573	-.234
17	-4.290	-4.973	-3.417	-1.038	-.752	-.344	-.355
18	-5.270	-5.138	-3.108	-.686	-.575	-.584	-.440
19	-5.469	-5.082	-2.898	-.672	-.587	-.498	-.358
20	-4.155	-4.074	-2.099	-.491	-.352	-.206	-.404
21	-2.069	-3.151	-2.566	-.560	-.467	-.358	-.227
22	-2.107	-2.032	-1.283	-.399	-.299	-.291	-.308
23	-1.314	-.964	-.531	-.230	-.278	-.262	-.313
24	-1.383	-.243	-.317	-.269	-.276	-.243	-.246
25	1.087	1.096	.433	.465	1.017	-.261	-.666
26	.765	1.190	1.165	.466	*000.000	-.065	.021
27	-.016	.724	.886	1.078	.959	.537	.101
28	-.155	.349	.517	.843	.713	.327	.132
29	-.201	.530	.665	.756	.574	.407	.247
30	-.215	.844	.753	.754	.658	.727	-.124
31	.429	1.208	1.211	1.105	.974	.929	-.006
32	.519	1.084	1.099	.837	.899	.860	.374
33	.336	.740	.905	.610	.680	.513	.164

$\alpha = 60°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.258	-.302	-1.197	-1.495	-.827	-1.886	-1.284
2	-.954	-1.532	-1.976	-2.714	-2.042	-1.923	-.722
3	-1.376	-1.973	-2.256	-2.919	-2.361	-1.269	-.248
4	-1.950	-2.416	-2.501	-3.241	-2.721	-1.525	-.666
5	-1.849	-2.349	-2.070	-2.387	-1.972	-.400	-.415
6	*000.000	*000.000	*000.000	.065	.113	-.115	-.028
7	*000.000	*000.000	*000.000	-1.761	-1.369	-.507	-.189
8	*000.000	*000.000	*000.000	-2.111	-2.111	-.492	-.132
9	*000.000	*000.000	*000.000	-2.392	-2.984	-.567	-.156
10	-1.529	-1.710	-1.669	-1.393	-1.359	-.353	-.108
11	-1.453	-1.631	*000.000	-.831	-.370	-.130	-.072
12	-1.399	-1.373	-1.013	-.507	-.454	-.245	-.176
13	-1.639	-1.496	-1.005	-.448	-.264	-.204	-.187
14	-1.430	-1.589	-.984	-.482	-.420	-.310	-.299
15	-1.416	-1.966	-.203	.111	.145	.142	-.109
16	-3.084	-3.402	-2.303	-.895	-.730	-.489	-.292
17	-4.635	-4.727	-2.662	-.626	-.549	-.363	-.177
18	-5.030	-5.588	-4.365	-1.087	-.860	-.750	-.433
19	-4.093	-5.684	-4.355	-1.152	-.822	-.813	-.528
20	-3.022	-4.110	-3.146	-.710	-.492	-.456	-.359
21	-1.629	-2.952	-2.422	-.548	-.350	-.287	-.177
22	-1.267	-2.116	-1.864	-.455	-.467	-.481	-.421
23	-1.257	-.805	-.441	-.312	-.350	-.442	-.344
24	-1.223	-.769	-.218	-.198	-.214	-.264	-.159
25	.979	.993	.269	.385	.806	-.674	-.759
26	.769	1.228	1.139	.438	*000.000	-.063	-.067
27	-.092	.737	.930	1.089	.932	.444	.105
28	-.168	.412	.557	.861	.681	.240	.199
29	-.243	.520	.651	.717	.491	.290	.235
30	-.231	.832	.817	.683	.585	.633	-.052
31	.369	1.262	1.222	1.152	1.045	.847	-.073
32	.512	1.123	1.201	.790	.948	.842	.180
33	.343	.747	.936	.588	.637	.366	.181

$\alpha = 65°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.149	-.558	-1.430	-1.500	-1.320	-.779	-.347
2	-1.111	-1.764	-2.380	-3.018	-2.506	-1.470	-.813
3	-1.426	-2.096	-2.316	-3.015	-2.538	-.762	-.298
4	-1.946	-2.427	-2.500	-3.169	-2.601	-.616	-.582
5	-2.016	-2.407	-2.054	-2.306	-1.922	-.421	-.380
6	*000.000	*000.000	*000.000	.051	.008	-.188	-.050
7	*000.000	*000.000	*000.000	-1.678	-1.315	-.503	-.190
8	*000.000	*000.000	*000.000	-2.007	-2.223	-.601	-.276
9	*000.000	*000.000	*000.000	-2.201	-2.295	-.312	-.163
10	-1.665	-1.824	-1.690	-1.433	-1.133	-.285	-.130
11	-1.591	-1.654	*000.000	-.955	-.372	-.158	-.121
12	-1.210	-1.251	-.828	-.504	-.208	-.152	-.109
13	-1.646	-1.476	-.950	-.464	-.309	-.196	-.166
14	-1.681	-1.542	-1.039	-.480	-.332	-.271	-.327
15	-1.368	-1.907	-.070	.021	.101	.075	-.144
16	-3.540	-3.623	-2.213	-1.014	-.851	-.637	-.541
17	-4.719	-5.040	-3.030	-.761	-.679	-.467	-.135
18	-4.934	-5.175	-3.600	-1.055	-.750	-.642	-.483
19	-3.746	-5.378	-4.337	-1.100	-.860	-.621	-.559
20	-2.895	-4.247	-3.296	-.809	-.602	-.686	-.497
21	-1.661	-3.240	-2.543	-.599	-.575	-.560	-.462
22	-1.349	-1.946	-1.783	-.505	-.384	-.417	-.399
23	-1.193	-.826	-.631	-.301	-.288	-.325	-.242
24	-1.246	-.816	-.238	-.288	-.280	-.208	-.218
25	.979	.971	.254	.447	.712	-.844	-.500
26	.670	1.218	1.100	.290	*000.000	.065	-.060
27	-.113	.770	.985	1.109	.953	.445	-.102
28	-.172	.354	.535	.826	.562	.146	.119
29	-.296	.508	.641	.692	.404	.230	.222
30	-.346	.836	.816	.672	.534	.580	-.120
31	.360	1.153	1.176	.998	.829	.701	-.079
32	.469	1.101	1.165	.744	.825	.705	.225
33	.245	.681	.906	.488	.531	.344	.066

$\alpha = 70°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	-.024	-.596	-1.554	-1.620	-1.667	-.790	-.510
2	-1.347	-1.931	-2.540	-3.157	-2.887	-1.020	-.540
3	-1.622	-2.399	-2.736	-3.172	-2.577	-.299	-.356
4	-2.078	-2.560	-2.603	-3.226	-2.487	-.560	-.502
5	-2.149	-2.443	-2.066	-2.377	-1.733	-.424	-.480
6	*000.000	*000.000	*000.000	-.008	-.029	-.031	-.033
7	*000.000	*000.000	*000.000	-1.534	-1.086	-.471	-.345
8	*000.000	*000.000	*000.000	-2.320	-1.631	-.467	-.342
9	*000.000	*000.000	*000.000	-1.842	-1.984	-.397	-.205
10	-1.851	-1.849	-1.564	-1.183	-.648	-.192	-.160
11	-1.746	-1.716	*000.000	-.682	-.244	-.110	-.145
12	-1.317	-1.378	-.912	-.487	-.246	-.198	-.202
13	-1.562	-1.441	-.865	-.353	-.291	-.246	-.246
14	-1.694	-1.555	-.922	-.345	-.278	-.269	-.285
15	-1.298	-1.857	-.199	-.024	.029	.059	-.228
16	-2.987	-3.169	-1.987	-.559	-.697	-.631	-.380
17	-4.174	-4.619	-2.938	-.655	-.656	-.545	-.340
18	-4.492	-4.986	-3.756	-.735	-.571	-.523	-.393
19	-4.745	-5.227	-3.687	-.727	-.559	-1.095	-.297
20	-2.897	-3.830	-2.821	-.675	-.635	-.631	-.624
21	-2.598	-2.988	-2.040	-.486	-.473	-.464	-.426
22	-1.325	-1.923	-1.609	-.397	-.454	-.484	-.488
23	-1.325	-.777	-.627	-.327	-.347	-.329	-.352
24	-1.160	-.480	-.127	-.212	-.237	-.202	-.233
25	.857	.910	.151	.419	-.033	-.567	-.569
26	.722	1.248	1.171	.338	*000.000	.251	-.113
27	-.022	.737	.896	.977	.793	.375	-.032
28	-.261	.362	.522	.773	.453	.195	.099
29	-.334	.480	.605	.611	.304	.214	.157
30	-.287	.837	.826	.412	.429	.522	-.163
31	.300	1.152	1.156	.717	.771	.601	-.235
32	.449	1.056	1.145	.565	.573	.557	.052
33	.259	.680	.905	.426	.362	.270	-.045

Table 11.- Continued.

(c) $C_{T,S} = 0.60$, $q_s = 21.74$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.093	1.208	.513	.450	1.135	1.120	.894
2	.878	.924	.431	.484	.923	1.009	.764
3	.686	.682	.199	.216	.711	.817	.587
4	.232	.269	-.111	.052	.373	.478	.351
5	-.175	-.253	-.490	-.181	-.057	.049	-.014
6	*000.000	*000.000	*000.000	-.039	.026	.094	.077
7	*000.000	*000.000	*000.000	-.541	-.344	-.233	-.101
8	*000.000	*000.000	*000.000	-1.359	-1.302	-1.053	-.807
9	*000.000	*000.000	*000.000	-2.144	-2.361	-2.051	-1.572
10	-.524	-.697	-.884	-2.430	-1.851	-1.638	-1.240
11	-.679	-.951	*000.000	-1.425	-1.464	-1.201	-.924
12	-1.012	-.808	-.824	-1.015	-1.105	-.870	-.705
13	-.651	-.844	-.761	-.835	-.883	-.766	-.537
14	-.780	-.866	-.707	-.830	-.902	-.795	-.543
15	-.284	-1.214	.102	-.174	-.188	-.097	-.084
16	-1.917	-2.053	-1.163	-1.732	-1.805	-1.873	-1.177
17	-2.695	-2.815	-1.687	-2.083	-2.348	-2.191	-1.571
18	-3.132	-3.018	-1.754	-2.494	-2.688	-2.487	-1.752
19	-3.221	-2.913	-1.375	-2.527	-2.551	-2.541	-1.597
20	-2.602	-1.946	-.657	-1.760	-1.233	-1.912	-1.424
21	-2.153	-1.283	-.446	-1.032	-1.136	-1.138	-1.053
22	-1.532	-.560	-.362	-.473	-.346	-.496	-.721
23	-.843	-.347	-.345	-.336	-.349	-.328	-.537
24	-.796	-.324	-.291	-.350	-.301	-.349	-.494
25	.526	.585	.378	.450	.690	.609	.536
26	-.153	-.229	.238	-.159	*000.000	.157	.367
27	-.433	-.212	.033	.335	-.006	.206	.058
28	-.188	-.020	.183	.581	.161	.085	.178
29	.132	.397	.403	.554	.699	.668	.476
30	.249	.622	.445	.702	.725	.754	.015
31	.939	1.177	.512	.938	1.031	1.000	.309
32	.902	1.065	.550	.950	1.080	1.062	.908
33	.572	.737	.418	.709	.826	.770	.584

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.040	1.106	.241	.082	.950	1.013	.815
2	.635	.537	-.083	-.501	.373	.534	.457
3	.348	.241	-.306	-.499	.161	.346	.296
4	-.105	-.271	-.588	-.701	-.252	-.151	-.181
5	-.449	-.702	-.898	-.628	-.504	-.344	-.332
6	*000.000	*000.000	*000.000	.036	.059	-.005	-.027
7	*000.000	*000.000	*000.000	-.863	-.643	-.533	-.451
8	*000.000	*000.000	*000.000	-1.794	-1.796	-1.608	-1.386
9	*000.000	*000.000	*000.000	-2.680	-2.838	-2.463	-2.048
10	-.540	-.947	-1.135	-2.571	-2.203	-1.982	-1.639
11	-.897	-1.331	*000.000	-1.753	-1.895	-1.633	-1.315
12	-1.242	-1.015	-.930	-1.089	-1.229	-1.022	-.819
13	-.674	-.934	-.839	-.901	-1.032	-.839	-.606
14	-1.009	-1.061	-.924	-1.004	-1.178	-.938	-.723
15	-.447	-1.363	-.158	-.173	-.188	-.198	-.099
16	-2.173	-2.230	-1.508	-1.786	-2.133	-2.016	-1.309
17	-3.303	-3.409	-2.417	-2.516	-3.185	-2.474	-1.793
18	-3.626	-3.325	-2.475	-2.634	-3.572	-3.121	-2.084
19	-3.768	-3.340	-2.665	-2.420	-3.306	-2.953	-1.941
20	-2.882	-1.853	-1.352	-2.049	-1.959	-2.020	-1.743
21	-2.425	-1.319	-.543	-1.347	-1.498	-1.415	-1.240
22	-1.544	-.628	-.503	-.939	-.710	-.734	-.976
23	-1.021	-.503	-.429	-.360	-.515	-.348	-.562
24	-.812	-.521	-.340	-.222	-.293	-.342	-.481
25	.897	.984	.499	.569	1.075	.893	.718
26	.198	.357	.539	.152	*000.000	-.035	.201
27	-.201	-.043	.240	.601	-.106	.095	-.089
28	-.106	.084	.444	.684	.909	.618	.541
29	.185	.484	.623	.660	.778	.694	.531
30	.262	.627	.674	.806	.782	.797	.059
31	.877	1.192	.749	.999	1.088	1.119	.452
32	.839	1.000	.603	.918	1.038	1.000	.844
33	.590	.793	.546	.771	.875	.758	.515

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.042	.928	-.050	-.338	.713	.955	.729
2	.314	.113	-.767	-1.105	-.124	.228	.196
3	.008	-.241	-.834	-1.211	-.437	-.118	-.140
4	-.485	-.944	-1.404	-1.592	-.916	-.616	-.593
5	-.809	-1.157	-1.337	-1.336	-.997	-.809	-.676
6	*000.000	*000.000	*000.000	.106	.058	-.023	-.233
7	*000.000	*000.000	*000.000	-1.361	-1.069	-.870	-.814
8	*000.000	*000.000	*000.000	-2.499	-2.515	-2.237	-2.027
9	*000.000	*000.000	*000.000	-3.047	-3.326	-2.907	-2.449
10	-.817	-1.207	-1.451	-2.996	-2.602	-2.381	-1.971
11	-.890	-1.309	*000.000	-1.634	-1.864	-1.627	-1.308
12	-1.341	-1.120	-1.092	-1.119	-1.332	-1.112	-.865
13	-.866	-1.127	-1.069	-.973	-1.197	-1.015	-.741
14	-1.143	-1.133	-1.028	-.941	-1.123	-.941	-.711
15	-.625	-1.561	-.105	-.226	-.359	-.326	-.192
16	-2.371	-2.416	-1.796	-1.965	-2.329	-2.076	-1.393
17	-3.696	-3.764	-3.084	-2.090	-3.231	-2.833	-2.038
18	-3.901	-3.672	-3.091	-2.312	-3.446	-3.287	-2.254
19	-3.865	-3.521	-2.818	-2.137	-3.278	-3.258	-2.151
20	-3.507	-2.514	-1.284	-2.052	-2.553	-2.440	-1.865
21	-2.768	-1.719	-.735	-1.212	-1.692	-1.834	-1.567
22	-1.647	-.665	-.531	-.802	-.999	-1.309	-1.102
23	-1.079	-.564	-.524	-.358	-.282	-.434	-.843
24	-.941	-.557	-.461	-.255	.057	-.442	-.761
25	1.063	1.163	.543	.627	1.074	1.023	.835
26	.550	.822	.692	.077	*000.000	-.265	.112
27	.059	.243	.529	.896	.688	.244	.553
28	.006	.274	.463	.805	.868	.774	.586
29	.167	.558	.571	.706	.752	.633	.552
30	.271	.879	.674	.839	.820	.822	-.011
31	.837	1.210	.827	1.033	1.045	1.062	.388
32	.863	1.025	.867	.974	1.024	1.000	.793
33	.663	.770	.675	.802	.822	.736	.477

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.774	.514	-.702	-.953	-.184	.658	.418
2	-.106	-.565	-1.295	-1.816	-.743	-.241	-.298
3	-.422	-.886	-1.559	-2.059	-1.218	-.688	-.591
4	-.901	-1.338	-1.755	-2.094	-1.533	-1.198	-1.068
5	-1.203	-1.734	-1.852	-1.999	-1.640	-1.349	-1.225
6	*000.000	*000.000	*000.000	.067	.130	-.074	-.274
7	*000.000	*000.000	*000.000	-1.749	-1.588	-1.331	-1.183
8	*000.000	*000.000	*000.000	-2.864	-2.914	-2.635	-2.371
9	*000.000	*000.000	*000.000	-3.919	-4.243	-3.784	-3.179
10	-1.084	-1.633	-1.764	-3.344	-2.977	-2.730	-2.272
11	-1.037	-1.583	*000.000	-1.806	-2.054	-1.750	-1.372
12	-1.527	-1.184	-1.123	-1.090	-1.335	-1.102	-.848
13	-1.017	-1.196	-1.064	-.879	-1.084	-.914	-.719
14	-1.446	-1.352	-1.174	-1.013	-1.215	-1.034	-.735
15	-.770	-1.471	-.185	-.205	-.269	-.262	-.153
16	-2.606	-2.563	-1.993	-1.751	-2.267	-2.159	-1.351
17	-4.019	-3.872	-2.972	-2.200	-3.060	-2.584	-1.791
18	-4.602	-4.024	-3.187	-2.545	-3.317	-3.010	-2.001
19	-5.086	-4.384	-3.571	-2.669	-3.572	-3.339	-2.202
20	-4.271	-3.252	-2.319	-2.115	-2.478	-2.391	-1.766
21	-2.851	-2.006	-1.310	-1.260	-1.570	-1.607	-1.203
22	-1.888	-.760	-.550	-.770	-.722	-1.079	-.984
23	-1.352	-.630	-.462	-.336	-.200	-.459	-.641
24	-1.187	-.685	-.446	-.266	.014	-.289	-.505
25	1.191	1.237	.420	.470	1.051	1.119	.671
26	.806	1.124	.900	.399	*000.000	-.322	.095
27	.164	.551	.727	1.062	.963	.538	1.003
28	.096	.366	.574	.884	.924	.724	.523
29	.138	.607	.668	.762	.788	.694	.589
30	.278	.943	.844	.894	.872	.869	.028
31	.804	1.315	1.181	.999	1.140	1.105	.273
32	.826	1.137	1.006	.997	1.038	.972	.787
33	.567	.819	.796	.882	.859	.719	.538

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.519	.140	-1.383	-1.241	-.104	.510	-.369
2	-.622	-1.179	-2.190	-2.529	-1.240	-.613	-.781
3	-.821	-1.540	-2.183	-2.650	-1.664	-.922	-.885
4	-1.241	-1.807	-2.231	-2.460	-1.744	-1.157	-.994
5	-1.503	-2.110	-2.151	-2.255	-1.757	-1.307	-1.085
6	*000.000	*000.000	*000.000	.076	.157	-.001	-.251
7	*000.000	*000.000	*000.000	-1.805	-1.611	-1.218	-.854
8	*000.000	*000.000	*000.000	-2.986	-3.002	-2.402	-1.814
9	*000.000	*000.000	*000.000	-3.586	-3.778	-2.967	-2.185
10	-1.206	-1.628	-1.855	-3.371	-2.690	-2.198	-1.309
11	-1.132	-1.596	*000.000	-1.685	-1.842	-1.326	-.894
12	-1.626	-1.246	-1.146	-1.155	-.979	-.760	-.626
13	-1.192	-1.274	-1.124	-.767	-.873	-.805	-.602
14	-1.648	-1.470	-1.270	-1.010	-.925	-.622	-.475
15	-1.092	-1.614	-.337	-.200	-.169	-.166	-.109
16	-3.294	-3.199	-2.612	-1.845	-1.730	-1.143	-.831
17	-4.416	-4.333	-3.596	-2.156	-2.275	-1.121	-.845
18	-5.291	-4.616	-3.807	-2.417	-2.533	-1.802	-1.193
19	-5.327	-4.666	-4.000	-2.384	-2.329	-1.447	-.748
20	-4.000	-3.349	-2.657	-1.805	-1.710	-1.074	-.779
21	-2.973	-2.220	-1.677	-1.010	-.917	-.529	-.397
22	-1.866	-1.180	-.889	-.741	-.779	-.712	-.588
23	-1.602	-.774	-.599	-.247	-.391	-.555	-.453
24	-1.255	-.703	-.445	-.141	-.275	-.417	-.445
25	1.258	1.254	.287	.366	1.037	1.177	.116
26	.943	1.247	.967	.522	*000.000	-.200	.033
27	.321	.753	1.002	1.180	.942	.790	.607
28	.069	.547	.730	.979	.957	.729	.538
29	.089	.659	.766	.815	.797	.638	.516
30	.166	1.046	1.022	.965	.942	.891	-.002
31	.724	1.316	1.251	1.170	1.131	1.096	.307
32	.821	1.302	1.241	1.183	1.119	1.048	.804
33	.587	.896	.944	.953	.905	.679	.441

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.162	-.345	-1.715	-1.663	-.429	.280	-.618
2	-.944	-1.635	-2.650	-2.993	-1.587	-.774	-1.028
3	-1.312	-2.009	-2.626	-3.008	-2.006	-1.119	-1.071
4	-1.697	-2.434	-2.760	-3.010	-2.225	-1.557	-1.265
5	-1.761	-2.475	-2.504	-2.495	-1.895	-1.309	-.931
6	*000.000	*000.000	*000.000	.052	.180	.054	-.101
7	*000.000	*000.000	*000.000	-2.022	-1.645	-1.042	-.725
8	*000.000	*000.000	*000.000	-3.237	-3.170	-2.212	-1.538
9	*000.000	*000.000	*000.000	-3.232	-3.574	-2.483	-1.172
10	-1.375	-1.883	-2.020	-2.854	-2.363	-1.539	-.725
11	-1.305	-1.750	*000.000	-1.624	-1.269	-.601	-.538
12	-1.687	-1.350	-1.253	-.839	-.656	-.633	-.455
13	-1.379	-1.411	-1.173	-.694	-.679	-.564	-.425
14	-1.765	-1.550	-1.194	-.574	-.585	-.427	-.424
15	-1.115	-1.468	-.263	-.015	-.110	.058	-.093
16	-3.225	-3.212	-2.540	-1.221	-1.368	-.911	-.646
17	-4.570	-4.777	-3.771	-1.212	-1.103	-.837	-.697
18	-5.304	-5.141	-4.386	-1.159	-1.096	-.763	-.735
19	-5.341	-4.936	-4.371	-1.128	-.954	-.752	-.569
20	-4.327	-4.261	-3.677	-.812	-.677	-.601	-.492
21	-3.219	-3.077	-2.511	-.700	-.655	-.561	-.499
22	-2.114	-1.729	-1.841	-.534	-.504	-.414	-.384
23	-1.672	-.949	-.605	-.497	-.434	-.432	-.454
24	-1.501	-1.049	-.467	-.360	-.384	-.394	-.435
25	1.181	1.134	-.015	.340	.999	1.155	.018
26	1.058	1.306	1.039	.641	*000.000	-.064	-.047
27	.390	.868	.968	1.088	.824	.597	.369
28	.127	.612	.745	1.036	1.017	.743	.501
29	.047	.675	.757	.851	.807	.684	.458
30	.024	.989	.957	.947	.892	.857	-.065
31	.601	1.359	1.296	1.222	1.169	1.162	.190
32	.706	1.159	1.164	1.168	1.069	.983	.643
33	.529	.883	.990	.859	.875	.650	.358

Table 11. - Continued.

(c) $C_{T,S} = 0.60$, $q_S = 21.74$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.229	-1.093	-2.641	-2.549	-1.062	-.228	-1.066
2	-1.552	-2.702	-3.729	-4.126	-2.357	-1.291	-1.184
3	-1.847	-2.813	-3.547	-3.933	-2.527	-1.687	-1.183
4	-2.018	-2.921	-3.330	-3.408	-2.239	-1.529	-.819
5	-2.137	-3.002	-2.945	-2.961	-2.204	-1.773	-.885
6	*000.000	*000.000	*000.000	.053	.177	.030	-.034
7	*000.000	*000.000	*000.000	-2.251	-1.722	-1.105	-.595
8	*000.000	*000.000	*000.000	-3.176	-2.866	-1.868	-.844
9	*000.000	*000.000	*000.000	-3.610	-3.902	-2.625	-.881
10	-1.624	-2.104	-2.215	-2.906	-2.410	-1.486	-.579
11	-1.516	-1.962	*000.000	-1.765	-1.399	-.743	-.494
12	-1.758	-1.402	-1.229	-.952	-.688	-.587	-.402
13	-1.525	-1.546	-1.204	-.628	-.515	-.420	-.289
14	-2.119	-1.815	-1.372	-.709	-.642	-.440	-.418
15	-1.376	-1.591	-.307	-.083	-.083	-.129	-.156
16	-3.643	-3.639	-2.668	-1.608	-1.345	-1.031	-.720
17	-5.102	-5.323	-4.040	-1.523	-1.103	-.767	-.583
18	-5.495	-5.351	-4.292	-1.598	-.830	-.954	-.573
19	-5.460	-5.125	-4.343	-1.586	-.880	-.933	-.518
20	-4.082	-4.519	-3.662	-1.328	-.792	-.657	-.522
21	-3.037	-3.021	-2.366	-1.073	-.732	-.578	-.389
22	-2.334	-2.466	-2.061	-.738	-.543	-.714	-.514
23	-1.866	-1.122	-.584	-.584	-.484	-.611	-.438
24	-1.770	-1.003	-.442	-.190	-.378	-.429	-.379
25	1.132	.945	-.216	.092	.901	.921	-.215
26	1.092	1.364	1.151	.727	*000.000	-.158	-.038
27	.447	.943	1.089	1.077	1.090	.419	.365
28	.075	.589	.746	.957	.918	.411	.348
29	.002	.689	.771	.840	.783	.392	.451
30	-.109	.984	.961	.938	.881	.675	.043
31	.492	1.286	1.248	1.135	1.075	.849	.034
32	.705	1.272	1.266	1.153	1.133	1.034	.581
33	.511	.898	1.011	.947	.930	.559	.340

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.627	-1.775	-3.202	-3.231	-1.469	-.359	-1.480
2	-1.917	-3.022	-3.959	-4.161	-2.406	-1.240	-1.273
3	-2.386	-3.578	-4.287	-4.412	-2.908	-1.486	-1.184
4	-2.417	-3.452	-3.871	-3.918	-2.657	-1.623	-.965
5	-2.385	-3.258	-3.225	-3.103	-2.319	-1.393	-.688
6	*000.000	*000.000	*000.000	.017	.130	.124	-.082
7	*000.000	*000.000	*000.000	-2.403	-1.824	-.835	-.490
8	*000.000	*000.000	*000.000	-3.014	-2.719	-1.242	-.505
9	*000.000	*000.000	*000.000	-3.444	-3.771	-1.898	-.625
10	-1.688	-2.240	-2.275	-2.624	-2.126	-.841	-.368
11	-1.493	-1.879	*000.000	-1.570	-1.082	-.436	-.432
12	-1.515	-1.382	-1.053	-.852	-.472	-.280	-.401
13	-1.558	-1.473	-1.041	-.677	-.469	-.208	-.269
14	-2.305	-1.936	-1.343	-.688	-.630	-.299	-.397
15	-1.590	-1.615	-.335	-.009	.118	.149	-.217
16	-3.681	-3.642	-2.538	-1.421	-.997	-.703	-.606
17	-5.268	-5.619	-3.927	-1.544	-.909	-.672	-.568
18	-5.752	-5.943	-4.299	-1.792	-1.038	-.742	-.695
19	-5.457	-5.932	-4.086	-1.516	-.948	-.692	-.538
20	-4.813	-5.176	-3.733	-1.509	-1.059	-.793	-.898
21	-2.934	-3.601	-2.761	-.997	-.640	-.551	-.622
22	-2.175	-2.321	-2.116	-.938	-.729	-.703	-.706
23	-1.570	-.952	-.457	-.437	-.499	-.451	-.563
24	-1.752	-.990	-.322	-.207	-.323	-.362	-.388
25	.956	.567	-.719	-.288	.733	.007	-.650
26	1.232	1.397	1.174	.853	*000.000	-.154	-.180
27	.564	1.049	1.188	1.106	1.053	.500	.235
28	.179	.681	.863	.972	.933	.513	.309
29	-.019	.707	.840	.884	.771	.866	.359
30	-.163	.968	.967	.909	.816	.816	-.062
31	.452	1.307	1.332	1.216	1.138	1.124	-.113
32	.611	1.168	1.222	1.055	1.020	.978	.284
33	.489	.868	1.064	.889	.834	.625	.090

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.956	-2.243	-3.908	-3.661	-1.791	-1.366	-1.347
2	-2.327	-3.672	-4.777	-4.885	-3.085	-1.808	-1.342
3	-2.586	-3.951	-4.693	-4.940	-3.381	-1.807	-1.330
4	-2.771	-3.873	-4.375	-4.498	-3.164	-1.764	-.897
5	-2.721	-3.662	-3.711	-3.624	-2.737	-1.531	-.739
6	*000.000	*000.000	*000.000	-.009	.113	-.057	-.062
7	*000.000	*000.000	*000.000	-2.434	-1.985	-.978	-.556
8	*000.000	*000.000	*000.000	-3.313	-3.139	-1.183	-.447
9	*000.000	*000.000	*000.000	-3.291	-3.467	-1.046	-.306
10	-1.952	-2.486	-2.517	-2.521	-2.063	-.577	-.167
11	-1.637	-2.002	*000.000	-1.574	-.959	-.407	-.317
12	-1.742	-1.511	-1.214	-.809	-.505	-.399	-.346
13	-1.783	-1.665	-1.212	-.601	-.400	-.332	-.338
14	-2.217	-1.886	-1.379	-.676	-.544	-.367	-.381
15	-1.506	-1.564	-.310	.101	.135	.051	-.178
16	-3.848	-4.132	-2.964	-1.317	-.950	-.677	-.502
17	-5.135	-5.777	-3.835	-1.348	-.858	-.726	-.605
18	-5.300	-5.753	-4.037	-1.394	-.929	-.729	-.537
19	-5.258	-6.133	-4.279	-1.310	-.912	-.869	-.639
20	-3.506	-4.732	-3.491	-1.163	-.740	-.630	-.514
21	-2.923	-3.603	-2.554	-.762	-.578	-.591	-.408
22	-1.769	-2.133	-1.970	-.755	-.641	-.603	-.552
23	-1.718	-1.015	-.559	-.455	-.399	-.393	-.359
24	-1.702	-.631	-.079	-.307	-.320	-.292	-.294
25	.796	.206	-1.104	-.485	.508	-.704	-.841
26	1.158	1.355	1.110	.837	*000.000	.157	-.139
27	.582	1.180	1.248	1.091	1.050	.471	.362
28	.146	.754	.892	.979	.915	.405	.402
29	-.085	.717	.841	.852	.703	.502	.380
30	-.237	1.002	.969	.898	.771	.720	-.090
31	.378	1.322	1.303	1.206	1.065	.993	-.072
32	.563	1.193	1.217	.950	1.003	.907	.318
33	.405	.839	1.009	.740	.787	.478	.115

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.288	-2.940	-4.578	-4.162	-2.554	-2.149	-1.707
2	-2.738	-4.433	-5.506	-5.533	-3.754	-1.944	-1.441
3	-3.024	-4.670	-5.541	-5.564	-4.138	-1.711	-1.401
4	-3.307	-4.615	-5.174	-5.128	-3.843	-1.516	-.947
5	-3.111	-4.115	-4.189	-3.823	-2.911	-.992	-.771
6	*000.000	*000.000	*000.000	0.	-.023	-.203	.093
7	*000.000	*000.000	*000.000	-2.199	-1.833	-.921	-.413
8	*000.000	*000.000	*000.000	-3.210	-2.763	-.833	-.403
9	*000.000	*000.000	*000.000	-2.803	-2.780	-.681	-.415
10	-1.987	-2.485	-2.517	-1.833	-1.609	-.522	-.384
11	-1.775	-2.074	*000.000	-1.449	-.553	-.301	-.251
12	-1.851	-1.709	-1.241	-.814	-.501	-.365	-.311
13	-1.683	-1.494	-.993	-.567	-.365	-.318	-.289
14	-2.120	-1.756	-1.187	-.485	-.391	-.346	-.364
15	-1.431	-1.492	-.300	.033	.017	.073	-.194
16	-3.708	-3.989	-2.708	-1.176	-1.016	-.817	-.498
17	-4.836	-5.484	-3.468	-1.074	-.902	-.580	-.397
18	-5.599	-6.197	-4.182	-1.389	-1.005	-1.110	-.797
19	-4.258	-5.499	-3.860	-1.029	-.861	-.620	-.617
20	-4.597	-4.987	-3.276	-1.281	-.785	-.733	-.733
21	-3.066	-3.676	-2.639	-.972	-.677	-.673	-.511
22	-1.973	-2.354	-1.892	-.675	-.594	-.572	-.524
23	-1.532	-.853	-.610	-.549	-.559	-.585	-.597
24	-1.528	-.374	-.160	-.366	-.357	-.374	-.323
25	.693	-.132	-1.660	-.708	.286	-1.521	-1.093
26	1.137	1.283	.988	.866	*000.000	.355	-.129
27	.608	1.255	1.274	.954	1.064	.425	.304
28	.097	.742	.910	.941	.799	.409	.363
29	-.111	.662	.783	.778	.588	.405	.357
30	-.338	.998	.988	.879	.734	.720	-.145
31	.332	1.253	1.220	1.119	.995	.826	.037
32	.507	1.162	1.233	.865	.919	.810	.303
33	.367	.850	1.050	.609	.686	.442	.128

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.321	-3.034	-4.615	-4.073	-2.558	-1.832	-1.617
2	-3.030	-4.719	-5.836	-5.747	-3.828	-1.444	-1.192
3	-3.136	-4.835	-5.563	-5.578	-4.106	-1.488	-1.119
4	-3.355	-4.548	-5.018	-4.755	-3.384	-1.122	-.708
5	-3.152	-3.969	-3.910	-3.628	-2.640	-1.101	-.514
6	*000.000	*000.000	*000.000	-.025	-.153	-.181	.032
7	*000.000	*000.000	*000.000	-2.124	-1.607	-.805	-.548
8	*000.000	*000.000	*000.000	-2.932	-2.266	-.675	-.396
9	*000.000	*000.000	*000.000	-2.524	-2.376	-.632	-.386
10	-2.189	-2.597	-2.502	-1.613	-1.021	-.444	-.348
11	-1.847	-2.079	*000.000	-1.188	-.436	-.288	-.222
12	-1.516	-1.490	-1.000	-.611	-.378	-.316	-.278
13	-1.804	-1.552	-.967	-.491	-.340	-.291	-.366
14	-2.081	-1.691	-1.056	-.471	-.300	-.343	-.365
15	-1.553	-1.461	-.278	.043	0.	.050	-.197
16	-3.457	-3.791	-2.462	-.908	-.863	-.684	-.473
17	-5.172	-5.606	-3.500	-1.101	-1.047	-.786	-.671
18	-5.378	-5.362	-3.320	-.937	-.956	-.939	-.876
19	-4.689	-5.363	-3.557	-.795	-.849	-.907	-.778
20	-4.024	-4.171	-2.904	-.802	-.564	-.509	-.469
21	-2.561	-3.210	-2.356	-.596	-.662	-.609	-.633
22	-1.922	-2.317	-2.029	-.729	-.709	-.736	-.778
23	-1.550	-.848	-.685	-.480	-.467	-.482	-.477
24	-1.280	-.361	-.153	-.363	-.318	-.276	-.272
25	.545	-.401	-1.839	-.618	-.137	-2.437	-1.079
26	1.138	1.293	.898	.885	*000.000	.370	-.156
27	.558	1.261	1.268	1.038	.886	.445	.257
28	.097	.725	.879	.858	.567	.369	.359
29	-.184	.665	.817	.712	.495	.430	.370
30	-.243	.950	1.014	.722	.660	.635	-.036
31	.372	1.311	1.276	.771	.956	.798	-.010
32	.500	1.207	1.264	.732	.807	.723	.313
33	.255	.722	.942	.706	.444	.387	.040

Table 11. - Continued.

(d) $C_{T,s} = 0.30$, $q_s = 19.50$

$\alpha = 5°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	1.061	1.155	.544	.666	1.175	1.109	.979
2	.560	.496	-.051	.573	.980	1.041	.823
3	.351	.174	-.361	.456	.761	.862	.706
4	-.133	-.403	-.820	.072	.364	.462	.273
5	-.578	-.944	-1.329	-.160	-.060	.156	.062
6	*000.000	*000.000	*000.000	-.071	.084	.124	.005
7	*000.000	*000.000	*000.000	-.600	-.432	-.173	-.097
8	*000.000	*000.000	*000.000	-1.660	-1.619	-1.336	-1.196
9	*000.000	*000.000	*000.000	-2.968	-2.985	-2.664	-2.296
10	-.791	-1.130	-1.577	-3.161	-2.194	-1.978	-1.727
11	-.901	-1.343	*000.000	-1.738	-1.767	-1.602	-1.369
12	-1.426	-1.058	-1.084	-1.205	-1.211	-1.071	-.793
13	-.814	-1.064	-.995	-.934	-.998	-.756	-.624
14	-1.169	-1.295	-1.092	-1.074	-1.104	-.861	-.853
15	-.533	-.960	-.204	-.259	-.306	-.228	-.193
16	-2.309	-2.418	-1.769	-1.893	-1.924	-1.669	-1.254
17	-3.349	-3.503	-2.475	-2.146	-2.270	-2.171	-1.469
18	-3.843	-3.586	-2.678	-2.179	-2.269	-2.411	-1.624
19	-3.872	-3.572	-2.370	-2.059	-2.095	-2.509	-1.621
20	-3.206	-2.279	-1.478	-1.531	-1.116	-1.352	-1.239
21	-2.631	-1.481	-.729	-.921	-.657	-.937	-.947
22	-2.082	-.598	-.591	-.542	-.448	-.484	-.766
23	-1.041	-.527	-.523	-.394	-.320	-.347	-.630
24	-1.048	-.515	-.384	-.377	-.354	-.259	-.440
25	.756	.872	.643	.369	.685	.637	.489
26	.054	.142	.412	.019	*000.000	.188	.448
27	-.294	-.219	-.044	.044	.098	.239	-.025
28	-.155	-.018	.153	.325	.168	.289	.305
29	.112	.389	.377	.515	.571	.588	.525
30	.232	.771	.469	.636	.641	.697	.037
31	.913	1.279	.669	.903	.979	.954	.427
32	.898	1.169	.642	.997	1.103	1.100	1.112
33	.606	.798	.514	.797	.888	.931	.684

$\alpha = 10°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.871	.834	-.517	.431	1.029	1.010	1.141
2	.024	-.118	-1.120	.107	.617	.567	.678
3	-.316	-.705	-1.691	-.442	.191	.336	.357
4	-.703	-1.175	-1.821	-.527	-.255	-.221	-.140
5	-1.027	-1.519	-2.002	-.889	-.649	-.669	-.378
6	*000.000	*000.000	*000.000	-.093	.026	-.039	-.062
7	*000.000	*000.000	*000.000	-1.348	-1.001	-.931	-.698
8	*000.000	*000.000	*000.000	-2.538	-2.380	-2.133	-1.835
9	*000.000	*000.000	*000.000	-3.323	-3.412	-3.141	-2.848
10	-1.091	-1.606	-2.048	-3.478	-2.770	-2.602	-2.171
11	-1.119	-1.654	*000.000	-2.000	-2.110	-1.941	-1.548
12	-1.796	-1.315	-1.289	-1.428	-1.536	-1.374	-1.045
13	-1.018	-1.249	-1.168	-1.086	-1.264	-1.159	-.695
14	-1.359	-1.370	-1.134	-1.108	-1.278	-1.133	-.886
15	-.782	-1.256	-.207	-.345	-.461	-.430	-.248
16	-2.616	-2.581	-1.746	-2.038	-2.270	-2.047	-1.321
17	-3.982	-3.870	-2.611	-2.516	-2.991	-2.604	-1.542
18	-4.836	-4.316	-3.025	-3.055	-3.447	-2.882	-1.995
19	-4.453	-3.820	-2.698	-2.605	-2.800	-2.616	-1.419
20	-3.891	-2.765	-1.727	-2.151	-1.759	-2.133	-1.380
21	-3.077	-1.809	-.888	-1.505	-1.511	-1.227	-.936
22	-2.292	-.777	-.567	-.700	-.697	-1.126	-.760
23	-1.345	-.580	-.523	-.411	-.666	-.427	-.610
24	-1.157	-.529	-.500	-.348	-.409	-.594	-.543
25	.966	1.163	.407	.637	.881	.744	.826
26	.559	.788	.610	-.123	*000.000	-.170	.365
27	.007	.255	.431	.544	.063	-.034	.148
28	-.032	.205	.410	.647	.879	.834	.865
29	.166	.507	.528	.663	.762	.752	.723
30	.242	.902	.629	.755	.799	.733	-.131
31	.776	1.306	.765	1.106	1.052	1.018	.709
32	.797	1.162	.781	1.056	1.062	.964	1.011
33	.585	.870	.562	.847	.827	.655	.596

$\alpha = 15°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.421	.143	-1.625	-.309	.400	.623	.589
2	-.637	-1.179	-2.733	-1.107	-.344	-.145	-.129
3	-.961	-1.656	-2.954	-1.547	-.905	-.476	-.320
4	-1.270	-1.986	-2.875	-1.827	-1.301	-.945	-.831
5	-1.451	-2.166	-2.606	-1.664	-1.403	-1.234	-1.130
6	*000.000	*000.000	*000.000	-.088	.061	-.078	-.221
7	*000.000	*000.000	*000.000	-1.998	-1.581	-1.496	-1.512
8	*000.000	*000.000	*000.000	-3.094	-3.102	-2.833	-2.752
9	*000.000	*000.000	*000.000	-4.297	-4.459	-4.169	-3.798
10	-1.336	-1.943	-2.337	-3.927	-3.175	-3.001	-2.763
11	-1.194	-1.736	*000.000	-2.017	-2.132	-1.960	-1.742
12	-1.991	-1.485	-1.402	-1.463	-1.587	-1.326	-1.230
13	-1.124	-1.261	-1.165	-1.144	-1.249	-1.060	-.778
14	-1.588	-1.389	-1.165	-1.185	-1.344	-1.133	-.981
15	-.855	-1.162	-.228	-.280	-.389	-.398	-.344
16	-3.079	-2.975	-2.224	-2.256	-2.724	-2.203	-1.288
17	-4.521	-4.246	-3.233	-2.675	-3.441	-2.437	-1.558
18	-5.015	-4.437	-3.441	-2.850	-3.713	-2.521	-1.578
19	-4.791	-3.940	-2.972	-2.921	-3.485	-2.676	-1.376
20	-3.481	-3.160	-2.037	-2.179	-2.538	-1.889	-1.312
21	-2.795	-1.690	-1.134	-1.449	-1.898	-1.440	-.932
22	-1.898	-.716	-.598	-.961	-1.007	-1.090	-.836
23	-1.565	-.641	-.491	-.417	-.321	-.748	-.859
24	-1.364	-.635	-.489	-.304	-.054	-.577	-.878
25	1.058	1.185	-.199	.619	.995	.933	.823
26	.919	1.204	.800	.078	*000.000	-.358	.124
27	.267	.587	.731	.912	.847	.567	.760
28	.091	.397	.627	.827	.889	.787	.568
29	.153	.606	.691	.792	.806	.712	.511
30	.203	.995	.851	.799	.851	.760	.261
31	.691	1.265	.944	1.036	1.019	.966	.381
32	.817	1.235	.949	1.076	1.030	.988	.774
33	.609	.864	.743	.918	.880	.712	.261

$\alpha = 20°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-.050	-.598	-2.832	-1.147	-.363	.063	.241
2	-1.396	-2.305	-3.967	-2.366	-1.520	-1.004	-.619
3	-1.699	-2.828	-4.219	-2.665	-1.927	-1.281	-.991
4	-1.935	-3.061	-4.092	-2.830	-2.138	-1.726	-1.421
5	-2.047	-3.100	-3.627	-2.601	-2.211	-1.844	-1.536
6	*000.000	*000.000	*000.000	-.085	.048	-.057	-.171
7	*000.000	*000.000	*000.000	-2.461	-2.125	-1.889	-1.934
8	*000.000	*000.000	*000.000	-3.790	-3.744	-3.284	-3.153
9	*000.000	*000.000	*000.000	-4.633	-4.791	-4.404	-3.994
10	-1.704	-2.435	-2.855	-4.333	-3.592	-3.401	-2.963
11	-1.510	-2.180	*000.000	-2.303	-2.449	-2.118	-1.674
12	-2.044	-1.526	-1.405	-1.372	-1.514	-1.212	-.987
13	-1.448	-1.587	-1.347	-1.157	-1.280	-1.008	-.780
14	-1.976	-1.639	-1.308	-1.167	-1.216	-.961	-.808
15	-1.314	-1.353	-.275	-.301	-.344	-.321	-.210
16	-3.878	-3.865	-2.860	-2.074	-2.558	-2.012	-1.166
17	-4.879	-4.674	-3.485	-2.438	-2.698	-1.777	-1.080
18	-5.837	-4.889	-3.946	-2.724	-3.034	-1.986	-1.273
19	-5.604	-4.991	-3.884	-2.688	-3.328	-1.627	-1.289
20	-4.118	-3.447	-2.774	-1.810	-1.851	-1.126	-.807
21	-3.340	-2.869	-1.981	-1.436	-1.271	-.985	-.771
22	-2.231	-1.169	-.849	-.768	-.778	-.774	-.540
23	-1.756	-1.072	-.585	-.408	-.493	-.555	-.487
24	-1.515	-.851	-.529	-.355	-.229	-.555	-.565
25	1.062	1.070	-.929	.611	1.013	1.075	1.045
26	1.160	1.392	.809	.223	*000.000	-.076	.194
27	.509	.858	.868	1.072	.775	.875	.892
28	.226	.554	.733	.901	.862	.777	.656
29	.170	.710	.777	.892	.861	.824	.718
30	.094	1.053	.931	.924	.871	.874	.051
31	.554	1.379	1.176	1.139	1.055	1.024	.574
32	.770	1.289	1.040	1.147	1.051	1.000	.943
33	.610	.931	.824	.949	.873	.753	.487

Table 11.- Concluded.

(d) $C_{T,s} = 0.30$, $q_s = 19.50$

$\alpha = 25°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-.797	-1.821	-4.076	-1.905	-.913	-.133	-.240
2	-2.311	-3.600	-5.432	-3.359	-2.274	-1.341	-.957
3	-2.226	-3.462	-4.717	-3.037	-2.430	-1.568	-1.123
4	-2.385	-3.618	-4.519	-3.218	-2.334	-1.653	-1.261
5	-2.399	-3.484	-3.809	-2.666	-2.150	-1.589	-1.236
6	*000.000	*000.000	*000.000	-.059	.055	.056	-.105
7	*000.000	*000.000	*000.000	-2.345	-1.970	-1.553	-1.276
8	*000.000	*000.000	*000.000	-3.807	-3.557	-2.705	-2.215
9	*000.000	*000.000	*000.000	-4.302	-4.525	-3.540	-2.459
10	-1.887	-2.624	-2.878	-3.619	-2.888	-2.078	-1.014
11	-1.601	-2.214	*000.000	-1.955	-1.552	-.856	-.947
12	-2.054	-1.627	-1.402	-1.110	-.817	-.947	-.773
13	-1.792	-1.742	-1.467	-.919	-.955	-.762	-.761
14	-2.581	-2.072	-1.618	-.894	-.891	-.801	-.809
15	-1.755	-1.382	-.375	.024	-.094	-.165	-.179
16	-4.538	-4.238	-3.112	-1.510	-1.238	-1.185	-1.245
17	-6.450	-6.322	-4.549	-1.406	-1.441	-1.386	-1.350
18	-7.101	-6.530	-4.630	-1.263	-1.322	-1.202	-1.117
19	-5.826	-6.147	-4.643	-1.122	-1.116	-1.256	-1.274
20	-4.635	-5.030	-3.769	-1.476	-1.313	-1.262	-1.069
21	-3.867	-3.939	-2.599	-.742	-.727	-.802	-.779
22	-3.005	-2.798	-1.748	-.754	-.807	-.626	-.686
23	-2.182	-.955	-.584	-.457	-.433	-.475	-.469
24	-2.344	-.469	-.243	-.489	-.527	-.459	-.433
25	.888	.706	-1.343	.368	.767	1.000	.761
26	1.182	1.363	.836	.569	*000.000	.190	.183
27	.699	1.117	1.046	1.109	.740	.816	.746
28	.253	.681	.824	.918	.858	.764	.653
29	.132	.774	.800	.862	.846	.764	.671
30	-.080	1.118	1.004	.978	.915	.901	-.106
31	.519	1.393	1.269	1.133	1.052	1.032	.563
32	.694	1.293	1.238	1.085	1.015	.934	.788
33	.586	1.053	1.083	.976	.848	.731	.485

$\alpha = 30°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-1.310	-2.508	-4.692	-2.267	-1.341	-.453	-.544
2	-2.827	-4.398	-5.948	-4.187	-2.867	-1.782	-1.291
3	-3.097	-4.734	-5.933	-3.951	-2.952	-1.827	-1.276
4	-3.534	-5.188	-6.085	-4.455	-3.355	-2.327	-1.532
5	-2.938	-4.253	-4.449	-3.199	-2.675	-2.073	-1.392
6	*000.000	*000.000	*000.000	-.021	.064	.039	-.027
7	*000.000	*000.000	*000.000	-2.762	-2.265	-1.739	-1.369
8	*000.000	*000.000	*000.000	-3.991	-3.911	-2.873	-1.853
9	*000.000	*000.000	*000.000	-3.272	-4.354	-3.167	-1.634
10	-2.115	-3.012	-3.211	-3.234	-3.022	-2.081	-1.086
11	-1.817	-2.407	*000.000	-1.913	-1.470	-.865	-.656
12	-2.051	-1.713	-1.356	-1.257	-.680	-.640	-.623
13	-2.004	-1.862	-1.457	-.950	-.835	-.665	-.622
14	-2.818	-2.069	-1.582	-.980	-1.024	-.663	-.784
15	-1.610	-1.303	-.441	-.094	-.114	-.062	-.172
16	-4.399	-4.209	-3.113	-1.643	-1.410	-1.167	-1.104
17	-6.118	-5.844	-3.683	-1.375	-1.213	-1.022	-1.152
18	-6.534	-6.526	-4.771	-1.805	-1.756	-1.123	-.921
19	-6.318	-6.309	-4.072	-1.401	-1.146	-1.026	-.850
20	-5.031	-5.790	-3.720	-1.255	-1.093	-1.141	-.985
21	-4.004	-4.234	-2.655	-1.231	-1.121	-.709	-.609
22	-3.128	-2.628	-1.672	-.972	-.837	-.738	-.687
23	-2.725	-1.285	-.420	-.738	-.673	-.650	-.595
24	-2.543	-.363	-.307	-.614	-.594	-.551	-.576
25	.497	.079	-1.920	-.023	.404	.779	.330
26	1.202	1.346	.866	.821	*000.000	.262	.130
27	.797	1.237	1.282	1.159	1.089	.711	.683
28	.335	.788	1.006	1.004	.933	.790	.658
29	.052	.776	.867	.897	.834	.738	.608
30	-.179	1.142	1.078	1.029	.916	.885	-.092
31	.437	1.472	1.421	1.239	1.123	1.078	.526
32	.553	1.286	1.272	1.144	1.004	.923	.714
33	.501	1.039	1.202	1.025	.825	.667	.379

$\alpha = 35°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-2.286	-4.052	-6.064	-3.809	-2.471	-1.052	-1.070
2	-4.124	-6.315	-8.012	-5.982	-4.133	-2.522	-1.748
3	-3.952	-6.055	-7.175	-5.338	-3.932	-2.466	-1.655
4	-3.677	-5.434	-6.128	-4.480	-3.329	-2.271	-1.353
5	-3.409	-4.849	-5.016	-3.851	-2.994	-2.149	-1.303
6	*000.000	*000.000	*000.000	-.132	-.033	.048	.025
7	*000.000	*000.000	*000.000	-2.908	-2.435	-1.660	-1.099
8	*000.000	*000.000	*000.000	-3.828	-3.853	-2.637	-1.498
9	*000.000	*000.000	*000.000	-3.882	-4.505	-3.097	-1.506
10	-2.153	-2.997	-3.128	-2.237	-2.684	-1.658	-.814
11	-1.807	-2.407	*000.000	-2.119	-1.346	-.710	-.539
12	-2.229	-1.837	-1.491	-1.281	-.749	-.566	-.583
13	-2.018	-1.680	-1.268	-.928	-.739	-.498	-.481
14	-2.777	-1.983	-1.478	-.979	-.765	-.607	-.676
15	-1.836	-1.468	-.419	-.092	-.041	.034	-.081
16	-4.591	-4.524	-3.310	-1.596	-1.295	-1.077	-.976
17	-5.646	-5.973	-4.004	-1.843	-1.219	-.966	-.786
18	-6.431	-6.607	-4.462	-1.750	-1.213	-1.020	-.946
19	-4.358	-6.494	-4.583	-2.094	-1.239	-.947	-.885
20	-4.072	-5.461	-3.783	-1.829	-.904	-1.034	-1.059
21	-3.354	-4.041	-2.589	-1.201	-.831	-.681	-.805
22	-2.863	-2.487	-1.758	-.985	-.801	-.713	-.760
23	-2.381	-1.188	-.546	-.757	-.747	-.666	-.638
24	-2.244	-.193	-.171	-.542	-.605	-.578	-.566
25	-.022	-.869	-2.921	-.686	-.156	.527	.017
26	1.194	1.249	.827	.835	*000.000	.582	.142
27	.879	1.274	1.288	1.133	1.017	.611	.681
28	.437	.983	1.169	1.127	1.032	.795	.732
29	.054	.804	.920	.922	.834	.696	.627
30	-.245	1.060	1.041	.987	.850	.805	-.058
31	.376	1.380	1.355	1.146	1.035	.989	.380
32	.656	1.439	1.438	1.299	1.166	1.062	.800
33	.501	1.044	1.197	1.085	.900	.687	.417

$\alpha = 40°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-3.047	-5.163	-7.245	-4.934	-3.242	-2.467	-1.434
2	-4.193	-6.372	-7.715	-6.030	-4.301	-2.963	-1.842
3	-4.291	-6.574	-7.498	-5.638	-4.301	-2.713	-1.584
4	-4.527	-6.682	-7.556	-5.917	-4.366	-2.807	-1.597
5	-3.872	-5.541	-5.715	-4.524	-3.343	-2.190	-1.130
6	*000.000	*000.000	*000.000	-.078	-.029	.022	-.004
7	*000.000	*000.000	*000.000	-2.555	-2.243	-1.361	-.839
8	*000.000	*000.000	*000.000	-3.426	-3.538	-2.108	-.836
9	*000.000	*000.000	*000.000	-2.753	-3.997	-2.050	-.876
10	-2.382	-3.275	-3.312	-1.668	-2.274	-1.075	-.635
11	-1.846	-2.381	*000.000	-1.569	-1.056	-.658	-.532
12	-2.095	-1.778	-1.418	-1.386	-.698	-.501	-.494
13	-2.419	-1.860	-1.360	-.903	-.650	-.516	-.661
14	-2.772	-1.743	-1.223	-.902	-.554	-.511	-.468
15	-1.678	-1.393	-.414	-.184	-.100	-.004	-.141
16	-4.153	-4.103	-2.960	-1.578	-1.199	-.946	-1.024
17	-4.638	-5.113	-3.394	-1.655	-1.130	-.912	-.877
18	-4.828	-5.144	-3.377	-1.395	-.997	-.884	-.847
19	-3.528	-4.877	-3.039	-1.729	-1.128	-.928	-.954
20	-2.922	-3.970	-2.658	-1.161	-.884	-.712	-.840
21	-3.162	-3.425	-2.636	-1.241	-.873	-.825	-.842
22	-2.459	-2.052	-1.752	-.945	-.761	-.767	-.738
23	-2.241	-.672	-.631	-.666	-.783	-.818	-.756
24	-1.786	-.239	-.157	-.501	-.561	-.514	-.551
25	-.453	-1.778	-3.766	-1.667	-.659	-.984	-.364
26	1.087	1.071	.646	.795	*000.000	.577	.127
27	.985	1.340	1.269	1.128	.993	.610	.661
28	.417	.913	1.037	.994	.889	.638	.636
29	.049	.828	.966	.917	.793	.689	.626
30	-.180	1.082	1.034	.901	.832	.799	.017
31	.420	1.368	1.326	.977	1.047	.989	.505
32	.519	1.209	1.224	1.045	.956	.878	.721
33	.501	.918	1.094	.947	.767	.593	.376

Table 12.- Pressure coefficients for wing with propeller rotation down at tip, inboard slat and fences, $\delta_f = 20°$.

(a) $C_{T,s} = 0.90$, $q_s = 20.21$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.988	.773	-.138	.791	1.070	1.185	.364
2	1.043	1.218	.799	.854	1.085	1.164	.443
3	.881	1.176	.985	.777	.905	1.007	.477
4	.594	.984	1.157	.690	.855	.710	.103
5	.200	.571	.700	.455	.330	.356	-.006
6	*000.000	*000.000	*000.000	-.131	-.009	.024	-.036
7	*000.000	*000.000	*000.000	.352	.488	.488	.188
8	*000.000	*000.000	*000.000	-.471	-.582	-.446	-.365
9	*000.000	*000.000	*000.000	-1.371	-1.569	-1.206	-.834
10	-.086	-.075	-.092	-1.440	-1.251	-.876	-.585
11	-.220	-.490	*000.000	-.847	-1.077	-.565	-.428
12	-.444	-.411	-.443	-.451	-.857	-.290	-.296
13	-.147	-.377	-.419	-.412	-.469	-.294	-.233
14	-.149	-.370	-.349	-.402	-.449	-.326	-.238
15	-.032	-1.251	.353	.310	.312	.284	-.184
16	-.031	.245	.221	.375	.270	.210	.029
17	.052	.211	.250	.330	.256	.198	.010
18	.079	.163	.119	.257	.206	.104	-.003
19	.019	.023	.039	.030	-.039	.188	-.106
20	-.184	-.330	-.353	-.510	-.529	-.363	-.213
21	-.403	-.668	-.672	-.743	-.804	-.555	-.367
22	-.415	-.662	-.661	-.798	-.741	-.585	-.386
23	-.140	-.124	-.141	-.167	-.275	-.308	-.238
24	-.026	.059	.140	.128	.127	.106	-.006
25	-.111	-.901	-2.463	.404	.448	.291	.178
26	-.554	-1.780	-2.463	.385	*000.000	-.019	.459
27	-.745	-1.135	-1.445	-.084	.157	-.027	-.067
28	-.181	-.447	-.323	.486	-.005	.003	.112
29	-.053	.119	.277	.512	.388	.238	.172
30	.174	.821	.462	.884	.734	.431	.233
31	-.014	.569	.494	.718	.691	.407	.338
32	.054	.339	.462	.707	.555	.393	.343
33	.005	.268	.245	.388	.393	.266	.103

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.019	.946	.052	.734	1.139	1.225	.483
2	.983	1.193	.937	.714	.969	1.011	.321
3	.840	1.172	1.082	.615	.791	.809	.149
4	.498	.855	1.011	.359	.420	.515	.038
5	.110	.419	.658	.194	.132	.134	-.167
6	*000.000	*000.000	*000.000	.104	.024	-.008	.018
7	*000.000	*000.000	*000.000	.247	.385	.466	.111
8	*000.000	*000.000	*000.000	-.707	-.731	-.542	-.495
9	*000.000	*000.000	*000.000	-1.578	-1.814	-1.445	-1.007
10	-.179	-.138	-.124	-1.482	-1.379	-.984	-.651
11	-.321	-.547	*000.000	-.855	-1.048	-.612	-.442
12	-.583	-.440	-.339	-.522	-.650	-.293	-.308
13	-.188	-.408	-.370	-.467	-.473	-.327	-.245
14	-.206	-.336	-.284	-.365	-.413	-.265	-.238
15	-.169	-1.328	.348	.351	.290	.384	.077
16	-.071	.246	.363	.345	.370	.345	.099
17	.030	.240	.290	.364	.337	.338	.079
18	.005	.174	.320	.248	.252	.198	.038
19	-.042	.041	.114	.021	.014	.213	.038
20	-.279	-.326	-.295	-.511	-.527	-.339	-.176
21	-.447	-.653	-.596	-.802	-.818	-.542	-.337
22	-.527	-.672	-.626	-.749	-.777	-.605	-.408
23	-.274	-.152	-.076	-.202	-.278	-.342	-.219
24	-.130	.098	.127	.133	.166	.086	-.047
25	.056	-.529	-1.484	.582	.607	.410	.386
26	-.384	-1.363	-1.867	-.008	*000.000	.054	.417
27	-.666	-.946	-1.096	.209	.136	.034	.062
28	-.192	-.417	-.278	.626	.091	.053	.124
29	-.079	.114	.268	.432	.436	.339	.352
30	.307	.927	.594	.930	1.065	.656	.490
31	.064	.581	.560	.671	.691	.634	.459
32	.038	.379	.474	.670	.562	.499	.587
33	-.080	.280	.434	.438	.402	.360	.240

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.077	1.017	.214	.606	1.113	1.270	.370
2	.983	1.182	.861	.363	.859	1.038	.254
3	.819	1.088	.995	.252	.669	.843	.116
4	.400	.741	.805	.178	.322	.465	-.040
5	.056	.287	.496	.037	.003	.035	-.170
6	*000.000	*000.000	*000.000	.149	.053	.083	.053
7	*000.000	*000.000	*000.000	-.221	-.067	.302	-.034
8	*000.000	*000.000	*000.000	-.919	-.932	-.724	-.627
9	*000.000	*000.000	*000.000	-1.709	-1.874	-1.512	-1.079
10	-.242	-.271	-.338	-1.903	-1.486	-1.007	-.667
11	-.317	-.585	*000.000	-.886	-1.072	-.601	-.408
12	-.596	-.447	-.424	-.429	-.692	-.371	-.328
13	-.153	-.402	-.320	-.333	-.455	-.290	-.223
14	-.222	-.380	-.273	-.397	-.456	-.250	-.229
15	-.207	-1.388	.362	.421	.275	.398	-.128
16	.055	.250	.420	.339	.370	.372	.055
17	.079	.208	.227	.333	.342	.381	.073
18	.058	.176	.261	.268	.296	.296	.076
19	-.002	.009	.051	-.037	-.034	.261	.030
20	-.275	-.350	-.359	-.520	-.558	-.362	-.221
21	-.467	-.712	-.669	-.773	-.797	-.539	-.338
22	-.512	-.703	-.657	-.747	-.794	-.709	-.408
23	-.254	-.171	-.127	-.220	-.276	-.323	-.254
24	-.154	.095	.110	.169	.132	.100	.028
25	.199	-.215	-1.292	.700	.753	.637	.338
26	-.313	-1.047	-1.471	-.034	*000.000	.071	.339
27	-.548	-.846	-.924	.364	.084	.064	.020
28	-.158	-.349	-.238	.626	.045	.072	.175
29	-.093	.099	.149	.426	.432	.408	.311
30	.447	.931	.556	.884	1.034	.805	.598
31	.151	.564	.565	.633	.690	.716	.681
32	.039	.333	.410	.535	.563	.530	.624
33	-.014	.268	.294	.371	.390	.375	.205

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.088	1.105	.341	.458	1.027	1.160	.246
2	.888	1.053	.946	.065	.855	.786	-.096
3	.728	.969	1.000	-.070	.391	.606	-.202
4	.355	.603	.768	-.151	.087	.165	-.291
5	-.047	.136	.384	-.178	-.252	-.160	-.384
6	*000.000	*000.000	*000.000	.143	.048	-.030	-.014
7	*000.000	*000.000	*000.000	-.443	-.298	-.069	-.177
8	*000.000	*000.000	*000.000	-1.175	-1.132	-.863	-.769
9	*000.000	*000.000	*000.000	-1.957	-2.154	-1.702	-1.208
10	-.282	-.340	-.385	-2.089	-1.620	-1.167	-.806
11	-.365	-.684	*000.000	-.957	-1.201	-.687	-.573
12	-.646	-.536	-.500	-.362	-.751	-.360	-.344
13	-.286	-.467	-.402	-.350	-.524	-.315	-.304
14	-.265	-.403	-.335	-.397	-.445	-.305	-.276
15	-.155	-1.405	.388	.419	.286	.353	-.285
16	.068	.230	.399	.407	.326	.351	-.117
17	.088	.215	.385	.360	.340	.407	.029
18	.054	.140	.324	.292	.273	.308	-.004
19	-.049	-.035	.056	.002	-.043	.264	-.078
20	-.314	-.469	-.374	-.579	-.567	-.460	-.242
21	-.471	-.727	-.649	-.679	-.746	-.597	-.371
22	-.602	-.742	-.665	-.716	-.814	-.733	-.480
23	-.367	-.197	-.103	-.171	-.262	-.315	-.355
24	-.220	.081	.207	.173	.133	.080	-.088
25	.278	.071	-.663	.749	.821	.682	.317
26	-.198	-.793	-1.246	-.073	*000.000	.001	.237
27	-.541	-.679	-.843	.750	.029	-.014	-.078
28	-.173	-.297	-.117	.640	.806	.050	.187
29	-.095	.138	.281	.474	.428	.416	.280
30	.574	.967	.624	.941	1.002	.926	.586
31	.172	.562	.606	.688	.679	.687	.571
32	.076	.330	.456	.555	.537	.501	.528
33	-.017	.283	.370	.467	.395	.311	.030

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.111	1.152	.680	.308	.983	1.085	-.099
2	.808	.995	.982	-.170	.467	.620	-.317
3	.643	.865	.936	-.409	.195	.369	-.479
4	.268	.413	.628	-.424	-.074	-.018	-.605
5	-.130	-.005	.152	-.479	-.337	-.341	-.642
6	*000.000	*000.000	*000.000	.136	.092	.021	-.101
7	*000.000	*000.000	*000.000	-.659	-.473	-.213	-.393
8	*000.000	*000.000	*000.000	-1.895	-1.465	-.977	-.887
9	*000.000	*000.000	*000.000	-2.131	-2.301	-1.731	-1.309
10	-.393	-.502	-.529	-2.221	-1.767	-1.209	-.914
11	-.408	-.743	*000.000	-1.000	-1.196	-.742	-.598
12	-.667	-.537	-.463	-.321	-.677	-.362	-.380
13	-.256	-.475	-.403	-.374	-.449	-.311	-.286
14	-.305	-.441	-.316	-.425	-.432	-.347	-.316
15	-.072	-1.341	.408	.447	.254	.370	-.271
16	.110	.223	.356	.414	.400	.397	-.020
17	.108	.174	.351	.410	.385	.409	-.013
18	.091	.112	.236	.299	.291	.332	.004
19	-.044	-.037	.086	.006	.005	.281	-.041
20	-.437	-.465	-.345	-.533	-.531	-.409	-.286
21	-.528	-.820	-.743	-.669	-.788	-.551	-.422
22	-.599	-.860	-.753	-.694	-.735	-.705	-.513
23	-.492	-.310	-.227	-.183	-.249	-.305	-.426
24	-.271	.045	.110	.143	.157	.064	-.107
25	.426	.246	.319	.782	.931	.793	.108
26	-.012	-.443	-.771	-.089	*000.000	.225	.123
27	-.475	-.607	-.698	.807	.009	-.018	.004
28	-.143	-.295	-.086	.676	.786	.289	.256
29	-.089	.124	.277	.550	.485	.400	.343
30	.618	1.074	.834	.969	1.011	1.013	.559
31	.247	.568	.717	.733	.709	.699	.557
32	.091	.356	.508	.600	.579	.480	.472
33	-.023	.268	.448	.432	.401	.364	.090

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.085	1.225	.809	.043	.870	1.040	-.249
2	.814	1.064	1.088	-.514	.247	.468	-.665
3	.548	.786	.868	-.683	-.050	.225	-.753
4	.112	.340	.549	-.764	-.339	-.198	-.700
5	-.283	-.121	.087	-.780	-.563	-.485	-.715
6	*000.000	*000.000	*000.000	.141	-.035	-.026	-.009
7	*000.000	*000.000	*000.000	-.852	-.581	-.270	-.305
8	*000.000	*000.000	*000.000	-1.701	-1.613	-1.113	-.941
9	*000.000	*000.000	*000.000	-2.379	-2.517	-1.760	-1.142
10	-.411	-.503	-.586	-2.346	-1.874	-1.210	-.875
11	-.483	-.759	*000.000	-1.079	-1.223	-.699	-.555
12	-.818	-.594	-.668	-.353	-.747	-.472	-.388
13	-.333	-.504	-.468	-.385	-.532	-.407	-.342
14	-.364	-.469	-.415	-.423	-.421	-.412	-.289
15	-.157	-1.362	.386	.444	.218	.361	-.221
16	.046	.247	.294	.442	.351	.344	-.137
17	.044	.196	.281	.386	.322	.353	-.038
18	.031	.148	.429	.321	.293	.245	.029
19	-.107	-.069	-.019	-.010	-.038	.221	-.075
20	-.446	-.505	-.362	-.612	-.504	-.526	-.374
21	-.687	-.849	-.633	-.672	-.753	-.691	-.479
22	-.753	-.962	-.848	-.712	-.834	-.777	-.542
23	-.639	-.339	-.115	-.165	-.376	-.441	-.425
24	-.402	.072	.100	.070	.099	-.032	-.081
25	.440	.481	.056	.849	.968	.880	.084
26	-.012	-.287	-.500	.149	*000.000	-.013	.157
27	-.442	-.422	-.540	.893	-.017	.037	.180
28	-.170	-.214	-.008	.710	.740	.431	.289
29	-.208	.153	.327	.526	.434	.365	.332
30	.664	1.086	.963	.987	1.025	1.049	.700
31	.218	.555	.668	.726	.662	.689	.531
32	.047	.363	.515	.745	.532	.493	.548
33	-.053	.291	.376	.441	.374	.311	.121

Table 12. - Continued.

(a) $C_{T.S} = 0.90$, $q_c = 20.21$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.055	1.208	.708	.017	.817	.965	-.719
2	.675	.846	.485	-.740	.135	.288	-.897
3	.435	.539	.685	-.924	-.207	-.011	-.806
4	.039	.147	.441	-1.008	-.466	-.323	-.822
5	-.356	-.268	.066	-1.028	-.681	-.582	-.780
6	*000.000	*000.000	*000.000	.055	.061	.040	-.056
7	*000.000	*000.000	*000.000	-1.021	-.897	-.316	-.479
8	*000.000	*000.000	*000.000	-1.841	-1.642	-1.073	-.845
9	*000.000	*000.000	*000.000	-2.493	-2.469	-1.699	-1.073
10	-.494	-.610	-.631	-2.433	-1.842	-1.159	-.833
11	-.504	-.817	*000.000	-1.085	-1.160	-.660	-.528
12	-.774	-.562	-.395	-.327	-.635	-.461	-.410
13	-.411	-.534	-.384	-.316	-.439	-.375	-.351
14	-.451	-.502	-.578	-.430	-.422	-.379	-.310
15	-.260	-1.235	.403	.437	.317	.374	-.210
16	-.107	.164	.298	.415	.387	.433	-.086
17	-.059	.195	.456	.342	.352	.485	-.040
18	-.039	.099	.243	.304	.327	.315	-.018
19	-.115	-.116	-.046	-.063	-.041	.281	-.116
20	-.574	-.576	-.595	-.537	-.481	-.490	-.349
21	-.803	-.968	-.940	-.661	-.727	-.678	-.465
22	-.836	-.958	-.971	-.524	-.752	-.690	-.427
23	-.833	-.446	-.212	-.226	-.322	-.353	-.388
24	-.538	.058	.012	.018	.086	.035	.001
25	.603	.746	.008	.824	1.017	.872	-.065
26	.147	.041	.025	.146	*000.000	.036	.268
27	-.435	-.271	-.170	.950	.060	.083	.144
28	-.170	-.173	-.035	.664	.732	.543	.224
29	-.177	.170	.292	.541	.502	.389	.284
30	.883	1.078	.900	.950	1.022	1.098	.426
31	.194	.579	.736	.732	.675	.720	.519
32	.099	.388	.396	.537	.515	.504	.491
33	-.041	.309	.383	.405	.399	.341	.098

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.993	1.123	.748	-.167	.620	.746	-.868
2	.556	.734	.589	-1.063	-.141	.159	-1.236
3	.300	.404	.531	-1.149	-.429	-.227	-1.160
4	-.143	-.032	.296	-1.310	-.723	-.542	-1.238
5	-.481	-.505	-.254	-1.128	-.859	-.699	-.931
6	*000.000	*000.000	*000.000	.077	.047	.064	-.180
7	*000.000	*000.000	*000.000	-1.151	-.848	-.438	-.734
8	*000.000	*000.000	*000.000	-2.118	-1.927	-1.285	-1.187
9	*000.000	*000.000	*000.000	-2.595	-2.711	-1.778	-1.194
10	-.510	-.727	-.729	-2.337	-1.979	-1.226	-.880
11	-.518	-.899	*000.000	-1.047	-1.230	-.704	-.563
12	-.898	-.675	-.563	-.342	-.712	-.449	-.400
13	-.480	-.627	-.535	-.248	-.491	-.390	-.360
14	-.534	-.548	-.419	-.428	-.455	-.350	-.341
15	-.503	-1.238	.374	.513	.286	.412	-.389
16	-.144	.039	.350	.434	.359	.405	-.157
17	-.068	.044	.193	.362	.360	.468	-.082
18	-.033	.054	.151	.331	.295	.272	-.031
19	-.139	-.139	-.033	-.002	-.017	.356	-.131
20	-.770	-.685	-.569	-.545	-.511	-.469	-.376
21	-1.045	-1.061	-.824	-.579	-.745	-.658	-.501
22	-1.104	-1.062	-.973	-.517	-.679	-.569	-.528
23	-.916	-.534	-.408	-.203	-.325	-.303	-.340
24	-.500	.023	.057	.007	.033	-.017	-.163
25	.701	.873	.692	.853	1.070	.934	-.402
26	.216	.249	.237	.140	*000.000	.090	.156
27	-.348	-.188	-.264	1.035	.474	.173	.281
28	-.176	-.133	-.076	.739	.748	.497	.168
29	-.145	.145	.402	.571	.445	.349	.214
30	.911	1.055	.967	1.003	.980	1.228	.388
31	.266	.589	.678	.777	.669	.823	.472
32	.088	.374	.348	.590	.541	.545	.496
33	-.103	.273	.312	.468	.360	.386	.086

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.019	1.190	.897	-.301	.483	.508	-1.374
2	.426	.555	.419	-1.251	-.335	-.274	-1.359
3	.147	.303	.293	-1.461	-.685	-.568	-1.300
4	-.269	-.198	-.043	-1.576	-.984	-1.026	-1.291
5	-.555	-.620	-.441	-1.376	-1.067	-.961	-.931
6	*000.000	*000.000	*000.000	.040	.238	-.014	-.228
7	*000.000	*000.000	*000.000	-1.298	-.952	-1.532	-.761
8	*000.000	*000.000	*000.000	-2.256	-2.101	-1.382	-1.310
9	*000.000	*000.000	*000.000	-2.834	-2.990	-1.943	-1.425
10	-.831	-.857	-1.037	-2.408	-2.088	-1.316	-.957
11	-.621	-.970	*000.000	-1.096	-1.212	-.687	-.600
12	-.940	-.726	-.631	-.390	-.750	-.490	-.428
13	-.617	-.664	-.602	-.291	-.494	-.325	-.356
14	-.752	-.646	-.583	-.475	-.486	-.438	-.392
15	-.594	-1.233	.283	.492	.263	.445	-.343
16	-.172	.015	.358	.479	.304	.406	-.134
17	-.150	.058	.313	.379	.322	.376	-.108
18	-.078	.043	.281	.272	.237	.256	-.053
19	-.329	-.192	-.094	-.040	-.127	.302	-.090
20	-1.044	-.796	-.635	-.627	-.623	-.439	-.296
21	-1.348	-1.190	-.918	-.645	-.794	-.711	-.408
22	-1.477	-1.285	-1.052	-.608	-.719	-.578	-.495
23	-1.112	-.638	-.405	-.268	-.324	-.375	-.344
24	-.579	-.019	.021	-.040	.056	.026	-.119
25	.693	.986	.936	.824	1.041	1.018	-.531
26	.264	.444	.493	.183	*000.000	.052	.183
27	-.369	-.075	.061	.998	.483	.210	.279
28	-.147	-.086	-.011	.719	.735	.437	.185
29	-.211	.167	.318	.509	.428	.339	.170
30	.940	1.086	1.026	.999	.982	1.167	.496
31	.240	.575	.650	.750	.653	.729	.520
32	.036	.390	.523	.745	.514	.500	.540
33	-.118	.293	.405	.523	.399	.420	.103

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.931	1.041	.699	-.461	.323	.218	-1.700
2	.322	.335	.174	-1.414	-.505	-.988	-1.601
3	.044	.014	-.076	-1.675	-.963	-1.047	-1.687
4	-.388	-.437	-.383	-1.735	-1.124	-1.213	-1.309
5	-.662	-.611	-.675	-1.543	-1.190	-1.211	-.931
6	*000.000	*000.000	*000.000	.064	.241	-.017	-.181
7	*000.000	*000.000	*000.000	-1.424	-1.155	-.777	-.951
8	*000.000	*000.000	*000.000	-2.387	-2.326	-1.646	-1.528
9	*000.000	*000.000	*000.000	-2.756	-2.928	-1.816	-1.278
10	-.677	-.937	-1.079	-2.337	-2.058	-1.308	-.964
11	-.721	-1.091	*000.000	-1.024	-1.353	-.704	-.668
12	-1.021	-.750	-.724	-.366	-.719	-.379	-.410
13	-.757	-.757	-.644	-.533	-.607	-.390	-.398
14	-.889	-.700	-.561	-.435	-.472	-.384	-.313
15	-.635	-1.142	.231	.527	.260	.356	-.420
16	-.147	-.017	.249	.424	.336	.415	-.123
17	-.180	.005	.246	.355	.319	.420	-.021
18	-.161	.013	.172	.249	.228	.282	-.133
19	-.345	-.265	-.113	-.069	-.097	.250	-.073
20	-1.061	-.874	-.680	-.679	-.618	-.515	-.286
21	-1.445	-1.284	-1.033	-.653	-.723	-.412	-.275
22	-1.626	-1.324	-1.083	-.661	-.690	-.567	-.524
23	-1.151	-.681	-.495	-.330	-.306	-.390	-.495
24	-.534	-.050	.035	-.022	.086	-.029	-.089
25	.695	1.053	.945	.811	1.017	.523	-.857
26	.266	.642	.768	.191	*000.000	-.029	.138
27	-.352	-.021	.151	1.007	.504	.270	.203
28	-.176	-.075	.001	.842	.683	.336	.200
29	-.218	.135	.293	.556	.418	.352	.176
30	.889	1.019	.979	.978	.924	1.113	.284
31	.189	.559	.607	.732	.629	.740	.378
32	.002	.357	.465	.580	.486	.492	.500
33	-.160	.236	.302	.443	.308	.375	.106

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.913	.976	.584	-.619	.129	-.322	-1.638
2	.221	.201	-.027	-1.567	-.716	-1.120	-1.815
3	-.067	-.116	-.197	-1.766	-1.035	-1.290	-1.591
4	-.490	-.544	-.513	-1.723	-1.213	-1.600	-1.178
5	-.769	-.944	-.805	-1.664	-1.335	-1.509	-1.113
6	*000.000	*000.000	*000.000	.023	.079	-.412	-.319
7	*000.000	*000.000	*000.000	-1.430	-1.134	-1.008	-.851
8	*000.000	*000.000	*000.000	-2.536	-2.459	-1.955	-1.545
9	*000.000	*000.000	*000.000	-2.941	-3.197	-2.089	-1.383
10	-.791	-1.062	-1.195	-2.458	-2.264	-1.305	-.799
11	-.829	-1.168	*000.000	-1.062	-1.397	-.780	-.572
12	-1.134	-.875	-.776	-.415	-.817	-.440	-.395
13	-.898	-.869	-.717	-.547	-.464	-.400	-.457
14	-1.016	-.818	-.595	-.538	-.551	-.623	-.430
15	-.624	-1.126	.187	.479	.257	.182	-.409
16	-.295	-.043	.228	.435	.313	.242	-.111
17	-.281	-.023	.244	.354	.236	.275	-.168
18	-.315	-.031	.164	.270	.186	.013	-.109
19	-.473	-.336	-.178	-.070	-.154	.202	-.116
20	-1.227	-.931	-.737	-.657	-.596	-.368	-.268
21	-1.667	-1.394	-1.117	-.714	-.759	-.567	-.291
22	-1.867	-1.518	-1.162	-.665	-.498	-.376	-.311
23	-1.259	-.743	-.488	-.342	-.226	-.370	-.352
24	-.615	-.073	-.017	-.062	.028	-.173	-.100
25	.768	1.169	.902	.790	1.068	.561	-1.057
26	.305	.688	.883	.142	*000.000	-.149	.100
27	-.343	.052	.136	.995	.484	.068	.250
28	-.149	-.056	.019	.698	.610	.109	.079
29	-.141	.152	.282	.538	.381	.217	.251
30	.805	1.012	1.007	.952	.926	.978	.172
31	.085	.536	.542	.705	.587	.572	.387
32	-.034	.377	.478	.582	.440	.162	.348
33	-.186	.241	.304	.385	.278	.153	-.001

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.801	.876	.429	-.689	.024	-.578	-1.548
2	.160	.120	-.128	-1.797	-.905	-1.132	-1.503
3	-.160	-.279	-.398	-1.950	-1.304	-1.000	-1.287
4	-.518	-.697	-.811	-1.992	-1.559	-1.251	-1.066
5	-.870	-1.043	-.960	-1.739	-1.523	-.834	-.756
6	*000.000	*000.000	*000.000	-.011	.083	-.123	-.293
7	*000.000	*000.000	*000.000	-1.581	-1.373	-.350	-.434
8	*000.000	*000.000	*000.000	-2.410	-2.508	-.315	-.479
9	*000.000	*000.000	*000.000	-2.920	-3.306	-.225	-.324
10	-.831	-1.111	-1.225	-2.377	-2.234	-.235	-.237
11	-.923	-1.229	*000.000	-1.064	-1.331	-.344	-.313
12	-1.184	-.923	-.818	-.407	-.658	-.255	-.232
13	-1.011	-.911	-.679	-.524	-.442	-.247	-.210
14	-1.137	-.855	-.639	-.481	-.461	-.261	-.186
15	-.662	-1.049	.173	.490	.192	.321	-.352
16	-.359	-.043	.205	.374	.285	.355	-.113
17	-.328	-.066	.250	.343	.266	.333	-.083
18	-.354	-.049	.155	.262	.216	.334	-.154
19	-.533	-.343	-.179	-.075	-.122	.147	-.157
20	-1.360	-1.039	-.778	-.679	-.536	-.245	-.331
21	-1.871	-1.493	-1.134	-.798	-.681	-.340	-.340
22	-1.925	-1.542	-1.140	-.694	-.553	-.208	-.296
23	-1.376	-.783	-.494	-.368	-.305	-.332	-.210
24	-.636	-.084	.034	-.083	-.043	-.189	-.221
25	.941	1.208	1.027	.747	1.042	.374	-.992
26	.377	.744	.825	.143	*000.000	.036	.014
27	-.340	.127	.240	.986	.874	.151	.154
28	-.218	-.042	.063	.716	.665	.230	.151
29	-.234	.154	.340	.517	.356	.270	.142
30	.711	1.077	1.053	.963	.858	1.032	-.038
31	.190	.576	.609	.691	.547	.789	.101
32	-.042	.404	.542	.737	.423	.448	.400
33	-.201	.256	.360	.416	.269	.206	.079

Table 12. - Continued.

(a) $C_{T,S} = 0.90$, $q_S = 20.21$

$\alpha = 65°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.733	.796	.445	-.868	-.096	-.669	-1.419
2	.044	-.062	-.396	-1.768	-1.041	-.841	-1.199
3	-.307	-.398	-.533	-1.912	-1.317	-1.159	-1.370
4	-.740	-.882	-.927	-2.105	-1.652	-1.056	-1.000
5	-.969	-1.188	-1.065	-1.823	-1.592	-.469	-.461
6	*000.000	*000.000	*000.000	-.053	.075	-.078	.005
7	*000.000	*000.000	*000.000	-1.549	-1.349	-.431	-.429
8	*000.000	*000.000	*000.000	-2.454	-2.446	-.312	-.355
9	*000.000	*000.000	*000.000	-2.803	-3.109	-.311	-.529
10	-1.003	-1.277	-1.327	-2.533	-2.344	-.313	-.371
11	-.958	-1.218	*000.000	-.961	-1.188	-.309	-.346
12	-1.214	-1.048	-.856	-.440	-.714	-.323	-.345
13	-1.051	-.953	-.704	-.542	-.456	-.164	-.215
14	-1.209	-.938	-.693	-.496	-.414	-.084	-.196
15	-.565	-1.036	.120	.387	.138	.359	-.211
16	-.356	-.056	.217	.398	.231	.386	-.140
17	-.355	-.058	.177	.328	.277	.327	-.010
18	-.352	-.089	.112	.230	.146	.331	-.072
19	-.593	-.388	-.192	-.058	-.109	.219	-.088
20	-1.465	-1.101	-.802	-.639	-.585	-.299	-.253
21	-1.939	-1.542	-1.100	-.728	-.544	-.207	-.297
22	-1.885	-1.540	-1.079	-.650	-.467	-.193	-.295
23	-1.275	-.806	-.523	-.323	-.270	-.217	-.125
24	-.514	-.134	-.018	-.128	-.072	-.113	-.175
25	.643	1.117	.931	.691	.924	-.407	-.718
26	.298	.806	.872	.038	*000.000	-.009	.038
27	-.374	.142	.249	.948	.864	.036	.101
28	-.218	-.051	.050	.678	.593	.184	.031
29	-.274	.141	.265	.510	.320	.217	.252
30	.783	.985	.975	.979	.825	1.026	.076
31	.159	.556	.585	.654	.520	.601	.007
32	-.030	.358	.513	.666	.369	.389	.387
33	-.228	.226	.324	.385	.232	.257	-.022

$\alpha = 70°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.720	.786	.305	-.831	-.107	-1.052	-1.238
2	-.059	-.157	-.440	-1.786	-1.052	-1.043	-1.444
3	-.379	-.545	-.693	-1.992	-1.407	-.905	-1.036
4	-.744	-.923	-.913	-1.968	-1.575	-.818	-.710
5	-1.097	-1.247	-1.147	-1.745	-1.544	-.774	-.445
6	*000.000	*000.000	*000.000	-.036	.045	-.111	-.071
7	*000.000	*000.000	*000.000	-1.430	-1.253	-.320	-.340
8	*000.000	*000.000	*000.000	-2.446	-2.396	-.442	-.542
9	*000.000	*000.000	*000.000	-2.781	-3.026	-.271	-.122
10	-1.011	-1.229	-1.272	-2.166	-2.038	-.258	-.220
11	-1.051	-1.323	*000.000	-.952	-1.135	-.342	-.220
12	-1.044	-.983	-.776	-.392	-.520	-.178	-.109
13	-1.113	-1.023	-.720	-.496	-.440	-.221	-.093
14	-1.152	-.920	-.633	-.371	-.291	-.181	.006
15	-.630	-1.039	.129	.438	.229	.350	-.036
16	-.436	-.062	.178	.411	.291	.347	.033
17	-.375	-.041	.167	.343	.297	.381	-.017
18	-.335	-.109	.125	.271	.182	.216	-.035
19	-.647	-.457	-.206	-.039	-.077	.289	-.100
20	-1.502	-1.240	-.913	-.630	-.435	-.263	-.096
21	-1.984	-1.630	-1.138	-.640	-.462	-.220	-.058
22	-1.979	-1.612	-1.136	-.519	-.481	-.122	-.190
23	-1.312	-.839	-.511	-.287	-.204	-.185	-.253
24	-.459	-.110	.007	-.068	-.026	-.190	-.150
25	.658	1.156	.918	.724	.954	-.478	-.823
26	.295	.837	.921	.112	*000.000	.055	.144
27	-.404	.144	.337	.940	.870	.024	.255
28	-.293	-.064	.068	.771	.624	.147	.097
29	-.232	.116	.255	.532	.347	.181	.219
30	.741	.982	.999	.947	.858	.935	.019
31	.121	.586	.608	.653	.503	.604	.071
32	-.070	.379	.529	.546	.427	.357	.389
33	-.162	.224	.401	.430	.256	.254	.142

$\alpha = 75°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.695	.754	.266	-.763	-.222	-1.009	-1.340
2	-.231	-.187	-.436	-1.818	-1.090	-.759	-1.209
3	-.435	-.540	-.680	-2.011	-1.614	-.692	-1.237
4	-.889	-.988	-.953	-2.064	-1.790	-.864	-1.072
5	-1.214	-1.362	-1.186	-1.828	-1.678	-.429	-.575
6	*000.000	*000.000	*000.000	-.048	-.059	-.104	-.220
7	*000.000	*000.000	*000.000	-1.429	-1.175	-.224	-.571
8	*000.000	*000.000	*000.000	-2.407	-2.448	-.320	-.478
9	*000.000	*000.000	*000.000	-2.834	-3.027	-.182	-.536
10	-1.178	-1.321	-1.392	-2.075	-1.969	-.274	-.277
11	-1.212	-1.379	*000.000	-.927	-1.008	-.219	-.441
12	-1.244	-1.095	-.835	-.412	-.552	-.140	-.476
13	-1.113	-1.013	-.677	-.434	-.340	-.058	-.213
14	-1.283	-.981	-.585	-.374	-.377	-.052	-.348
15	-.858	-1.108	.178	.370	.129	.374	-.292
16	-.497	-.073	.210	.360	.223	.361	-.368
17	-.510	-.084	.207	.368	.265	.369	-.209
18	-.482	-.131	.116	.226	.142	.263	-.372
19	-.590	-.416	-.162	-.025	-.040	.250	-.267
20	-1.485	-1.127	-.707	-.530	-.426	-.163	-.516
21	-1.973	-1.600	-1.055	-.587	-.479	-.174	-.310
22	-1.952	-1.550	-1.048	-.558	-.391	-.174	-.264
23	-1.177	-.795	-.521	-.285	-.222	-.096	-.321
24	-.419	-.074	.066	-.072	-.062	-.158	-.238
25	.615	1.192	.848	.708	.954	-.607	-.761
26	.249	.869	.909	.049	*000.000	.059	-.107
27	-.438	.141	.365	.929	.914	.078	-.095
28	-.295	-.041	.122	.660	.538	.143	-.076
29	-.281	.132	.289	.524	.293	.197	-.123
30	.679	1.009	1.016	.911	.747	.813	-.217
31	.133	.573	.611	.655	.466	.527	-.086
32	.014	.368	.498	.649	.359	.436	-.148
33	-.100	.224	.358	.356	.270	.287	-.009

$\alpha = 80°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.396	.672	.192	-.636	-.129	-.645	-.867
2	-.321	-.252	-.530	-1.736	-1.260	-.410	-.548
3	-.595	-.801	-.727	-1.940	-1.871	-.665	-.875
4	-1.038	-1.048	-.964	-1.964	-1.696	-.595	-.567
5	-1.387	-1.361	-1.075	-1.721	-1.610	-.517	-.498
6	*000.000	*000.000	*000.000	-.056	-.015	-.278	-.137
7	*000.000	*000.000	*000.000	-1.376	-1.242	-.354	-.243
8	*000.000	*000.000	*000.000	-2.142	-2.145	-.206	-.191
9	*000.000	*000.000	*000.000	-2.551	-2.756	-.208	-.237
10	-1.235	-1.279	-1.194	-1.848	-1.597	-.233	-.086
11	-1.161	-1.360	*000.000	-.858	-.923	-.237	-.198
12	-1.078	-1.042	-.733	-.328	-.390	-.116	-.013
13	-1.064	-.953	-.636	-.399	-.337	-.104	-.007
14	-1.158	-.911	-.559	-.357	-.289	-.045	.020
15	-.602	-1.082	.130	.314	.195	.315	-.081
16	-.477	-.074	.165	.299	.249	.304	-.074
17	-.496	-.080	.171	.288	.193	.267	-.054
18	-.456	-.084	.159	.256	.188	.157	.040
19	-.658	-.414	-.198	-.070	-.086	.220	-.162
20	-1.420	-1.129	-.768	-.538	-.448	-.121	-.183
21	-1.803	-1.578	-1.091	-.562	-.425	-.124	-.170
22	-1.784	-1.500	-1.023	-.518	-.367	-.157	-.092
23	-1.133	-.770	-.503	-.305	-.196	-.181	-.054
24	-.384	-.061	.043	-.073	-.111	-.060	-.027
25	.508	1.130	.846	.696	.893	-.539	-.616
26	.279	.842	.950	-.018	*000.000	.105	.039
27	-.483	.169	.358	.861	.890	.090	.116
28	-.355	-.029	.137	.601	.488	.103	.070
29	-.247	.113	.270	.489	.288	.192	.143
30	.683	.976	.931	.894	.697	.665	.056
31	.092	.612	.624	.559	.435	.485	.156
32	-.094	.333	.465	.399	.312	.305	.105
33	-.150	.229	.331	.276	.245	.235	.178

Table 12.- Continued.

(b) $C_{T,s} = 0.80$, $q_s = 20.03$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.071	.977	.227	.699	1.150	1.150	.687
2	1.103	1.228	.895	.621	1.082	1.039	.643
3	.951	1.109	.822	.594	.840	.930	.495
4	.583	.447	.854	.509	.577	.555	.197
5	.218	.397	.452	.288	.201	.217	.024
6	.000,000	.000,000	.000,000	.091	-.017	-.026	-.064
7	.000,000	.000,000	.000,000	.254	.438	.473	.291
8	.000,000	.000,000	.000,000	-.609	-.739	-.590	-.594
9	.000,000	.000,000	.000,000	-1.633	-1.758	-1.417	-1.166
10	-.232	-.243	-.367	-1.744	-1.423	-1.029	-.796
11	-.361	-.627	.000,000	-.836	-1.154	-.704	-.571
12	-.590	-.500	-.482	-.269	-.727	-.462	-.485
13	-.211	-.443	-.404	-.470	-.525	-.369	-.347
14	-.205	-.394	-.408	-.420	-.475	-.344	-.316
15	-.089	-.890	.269	.378	.384	.339	-.081
16	.035	.250	.318	.336	.257	.240	-.036
17	.106	.229	.224	.276	.259	.197	-.012
18	.147	.189	.167	.234	.197	.101	-.015
19	.012	.019	.030	-.021	-.044	.126	-.093
20	-.261	-.360	-.347	-.559	-.554	-.418	-.309
21	-.511	-.660	-.643	-.803	-.799	-.626	-.451
22	-.575	-.696	-.692	-.798	-.768	-.729	-.511
23	-.261	-.121	-.189	-.225	-.210	-.268	-.276
24	-.061	.068	.062	.126	.107	.035	-.043
25	.041	-.475	-1.389	.303	.309	.393	.313
26	-.646	-1.308	-1.570	-.117	.000,000	.001	.156
27	-.753	-.955	-1.031	-.094	-.009	-.016	-.139
28	-.246	-.370	-.179	.431	.025	.009	.042
29	-.007	.129	.219	.416	.449	.231	.217
30	.800	.940	.457	.881	.786	.754	.293
31	.233	.566	.393	.722	.698	.556	.305
32	.223	.360	.412	.722	.593	.480	.346
33	.040	.282	.379	.425	.401	.340	.071

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.171	1.101	.440	.629	1.158	1.207	.779
2	.980	1.135	.848	.458	.906	.996	.543
3	.790	1.008	.906	.342	.699	.839	.391
4	.404	.638	.731	.261	.416	.426	.197
5	.032	.161	.320	.262	.005	.133	.030
6	.000,000	.000,000	.000,000	.108	.027	.084	.090
7	.000,000	.000,000	.000,000	-.109	.053	.354	.096
8	.000,000	.000,000	.000,000	-.908	-.959	-.782	-.638
9	.000,000	.000,000	.000,000	-1.813	-2.048	-1.627	-1.179
10	-.293	-.325	-.419	-1.902	-1.525	-1.122	-.800
11	-.457	-.670	.000,000	-.871	-1.201	-.752	-.624
12	-.672	-.512	-.439	-.292	-.779	-.489	-.405
13	-.240	-.450	-.392	-.453	-.563	-.379	-.304
14	-.257	-.382	-.329	-.394	-.486	-.346	-.264
15	-.242	-.932	.431	.413	.326	.435	-.270
16	.005	.293	.351	.387	.353	.278	.068
17	.136	.225	.324	.358	.335	.325	.018
18	.119	.188	.247	.324	.224	.242	.060
19	.007	.012	-.018	.017	-.067	.212	-.004
20	-.376	-.399	-.312	-.529	-.605	-.458	-.261
21	-.645	-.716	-.613	-.688	-.848	-.681	-.367
22	-.700	-.779	-.660	-.729	-.861	-.790	-.520
23	-.400	-.204	-.140	-.176	-.281	-.330	-.224
24	-.184	.084	.087	.168	.125	.116	-.005
25	.260	.020	-.522	.592	.651	.554	.393
26	-.367	-.821	-.895	-.091	.000,000	.069	.140
27	-.607	-.692	-.635	.260	-.053	.064	.008
28	-.298	-.342	-.091	.642	.195	.044	.142
29	-.026	.150	.241	.440	.460	.366	.338
30	.937	.973	.506	.945	1.047	.848	.674
31	.295	.548	.539	.657	.735	.699	.715
32	.187	.349	.429	.673	.560	.511	.521
33	.053	.298	.374	.471	.435	.360	.079

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.133	1.159	.816	.345	1.066	1.172	.655
2	.843	1.023	.832	.047	.661	.839	.239
3	.651	.829	.735	-.055	.415	.655	.078
4	.242	.375	.447	-.272	.029	.245	-.138
5	-.143	-.071	.035	-.348	-.274	-.150	-.350
6	.000,000	.000,000	.000,000	.053	.099	.072	-.069
7	.000,000	.000,000	.000,000	-.642	-.463	-.201	-.205
8	.000,000	.000,000	.000,000	-1.503	-1.472	-1.043	-1.044
9	.000,000	.000,000	.000,000	-2.208	-2.409	-1.831	-1.548
10	-.447	-.515	-.617	-2.306	-1.836	-1.375	-1.164
11	-.514	-.744	.000,000	-1.095	-1.348	-.873	-.847
12	-.777	-.587	-.529	-.347	-.803	-.491	-.535
13	-.299	-.497	-.426	-.470	-.551	-.385	-.449
14	-.343	-.452	-.428	-.472	-.539	-.387	-.310
15	-.398	-.958	.407	.399	.298	.398	-.348
16	-.020	.222	.392	.368	.326	.386	-.170
17	.050	.220	.374	.345	.335	.406	-.051
18	.174	.130	.262	.283	.269	.285	-.050
19	-.033	-.031	.021	-.041	-.085	.251	-.086
20	-.509	-.506	-.404	-.638	-.617	-.536	-.391
21	-.772	-.825	-.645	-.758	-.891	-.666	-.539
22	-.801	-.860	-.685	-.656	-.818	-.724	-.552
23	-.467	-.234	-.171	-.199	-.255	-.290	-.375
24	-.300	.079	.161	.114	.146	.165	-.100
25	.535	.398	-.107	.731	.851	.721	.444
26	-.150	-.512	-.689	-.056	.000,000	.063	.071
27	-.489	-.502	-.479	.536	-.052	.061	-.081
28	-.241	-.251	.004	.641	.858	.358	.260
29	-.014	.156	.300	.601	.475	.460	.286
30	1.047	1.060	.577	.968	1.079	1.048	.694
31	.404	.555	.636	.738	.716	.787	.519
32	.205	.383	.454	.702	.572	.522	.501
33	.054	.320	.390	.443	.414	.387	-.041

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.193	1.235	.667	-.007	.884	1.078	.326
2	.758	.879	.663	-.592	.243	.488	-.125
3	.458	.553	.511	-.605	.022	.231	-.175
4	.059	.149	.272	-.728	-.378	-.205	-.515
5	-.323	-.396	-.147	-.858	-.615	-.515	-.557
6	.000,000	.000,000	.000,000	.121	.117	-.012	.017
7	.000,000	.000,000	.000,000	-.937	-.725	-.457	-.518
8	.000,000	.000,000	.000,000	-1.749	-1.717	-1.368	-1.147
9	.000,000	.000,000	.000,000	-2.426	-2.687	-2.267	-1.817
10	-.467	-.694	-.782	-2.401	-2.083	-1.681	-1.381
11	-.529	-.862	.000,000	-1.157	-1.410	-.983	-.845
12	-.879	-.654	-.580	-.388	-.893	-.655	-.626
13	-.342	-.527	-.512	-.500	-.602	-.507	-.407
14	-.427	-.475	-.315	-.409	-.480	-.409	-.308
15	-.449	-1.000	.346	.450	.279	.312	-.409
16	.113	.137	.378	.438	.365	.348	-.220
17	.165	.115	.243	.371	.356	.362	-.080
18	.143	.083	.415	.280	.233	.215	-.105
19	-.024	-.081	.017	-.061	-.078	.241	-.134
20	-.623	-.575	-.398	-.655	-.659	-.550	-.326
21	-.863	-.881	-.748	-.613	-.739	-.702	-.516
22	-.886	-.922	-.742	-.571	-.732	-.738	-.620
23	-.692	-.354	-.245	-.187	-.232	-.331	-.454
24	-.369	.102	.134	.070	.156	.076	-.040
25	.731	.704	.257	.723	1.006	.862	.364
26	.135	.034	.232	.040	.000,000	-.021	.122
27	-.371	-.251	-.060	.829	.192	.047	.172
28	-.180	-.125	.088	.639	.777	.603	.295
29	.014	.204	.445	.536	.515	.429	.205
30	1.032	1.081	.856	.982	1.048	1.044	.596
31	.418	.580	.619	.671	.729	.702	.560
32	.185	.422	.585	.604	.593	.483	.524
33	.064	.317	.420	.420	.427	.327	.039

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.080	1.117	.754	-.168	.676	.995	-.150
2	.539	.625	.403	-.826	-.073	.239	-.504
3	.250	.271	.357	-1.086	-.411	.061	-.543
4	-.131	-.150	.029	-1.171	-.719	-.320	-.811
5	-.502	-.534	-.528	-1.120	-.810	-.650	-.757
6	.000,000	.000,000	.000,000	.080	.174	-.020	-.108
7	.000,000	.000,000	.000,000	-1.165	-.905	-.554	-.691
8	.000,000	.000,000	.000,000	-2.080	-2.063	-1.500	-1.395
9	.000,000	.000,000	.000,000	-2.638	-2.930	-2.189	-1.788
10	-.603	-.606	-.967	-2.507	-2.178	-1.590	-1.265
11	-.621	-.997	.000,000	-1.188	-1.501	-.923	-.860
12	-.937	-.883	-.587	-.413	-.828	-.539	-.554
13	-.503	-.619	-.649	-.502	-.620	-.522	-.455
14	-.567	-.583	-.485	-.478	-.553	-.365	-.290
15	-.404	-1.021	.497	.487	.272	.328	-.306
16	.067	0.	.321	.425	.323	.390	-.208
17	.088	.080	.146	.363	.292	.368	-.070
18	.096	.105	.350	.288	.214	.311	-.030
19	-.044	-.141	-.211	-.042	-.123	.258	-.101
20	-.784	-.844	-.498	-.638	-.692	-.611	-.412
21	-1.015	-1.001	-.873	-.587	-.785	-.612	-.484
22	-1.125	-1.027	-1.027	-.482	-.723	-.740	-.568
23	-.937	-.477	-.485	-.239	-.311	-.415	-.603
24	-.499	.049	.150	.029	.046	.047	-.089
25	.863	.935	.724	.735	1.043	.975	.231
26	.283	.336	.312	.173	.000,000	-.038	.015
27	-.287	-.113	.001	.959	.434	.118	.024
28	-.196	-.057	.191	.811	.816	.818	.323
29	-.029	.208	.520	.596	.905	.455	.242
30	1.021	1.023	.851	.999	1.002	1.094	.686
31	.404	.609	.673	.801	.705	.812	.493
32	.164	.413	.499	.747	.550	.549	.400
33	.021	.306	.216	.419	.374	.355	.012

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.056	1.067	.653	-.344	.545	.944	-.476
2	.345	.344	.302	-1.265	-.344	.197	-.770
3	.108	0.	-.048	-1.377	-.615	-.187	-.888
4	-.329	-.462	-.342	-1.594	-.989	-.626	-1.047
5	-.648	-.858	-.595	-1.351	-1.078	-.787	-1.017
6	.000,000	.000,000	.000,000	.091	.145	.029	-.009
7	.000,000	.000,000	.000,000	-1.377	-1.031	-.571	-.813
8	.000,000	.000,000	.000,000	-2.294	-2.139	-1.528	-1.268
9	.000,000	.000,000	.000,000	-2.843	-3.028	-2.125	-1.511
10	-.694	-.963	-1.063	-2.564	-2.175	-1.606	-1.207
11	-.656	-1.049	.000,000	-1.132	-1.383	-.799	-.670
12	-1.051	-.793	-.754	-.469	-.827	-.531	-.527
13	-.593	-.646	-.506	-.518	-.526	-.439	-.353
14	-.677	-.644	-.563	-.510	-.556	-.473	-.356
15	-.345	-1.005	.280	.480	.323	.368	-.333
16	.012	.029	.281	.425	.358	.385	-.166
17	.014	.060	.261	.360	.319	.350	-.089
18	.019	.038	.220	.246	.234	.233	-.035
19	-.213	-.201	-.086	-.049	-.076	.254	-.146
20	-.887	-.749	-.567	-.603	-.645	-.570	-.309
21	-1.302	-1.169	-.971	-.632	-.791	-.722	-.495
22	-1.493	-1.149	-1.004	-.567	-.709	-.771	-.576
23	-1.133	-.532	-.309	-.259	-.281	-.417	-.518
24	-.501	.009	.072	-.011	.080	.009	-.107
25	.951	1.043	.712	.777	1.085	1.107	-.099
26	.443	.640	.811	.233	.000,000	-.048	.013
27	-.213	.023	.202	1.015	.802	.172	.027
28	-.147	.016	.310	.798	.830	.723	.296
29	-.052	.234	.428	.617	.582	.450	.335
30	1.044	1.076	1.126	.996	1.065	1.175	.350
31	.398	.633	.880	.776	.741	.734	.433
32	.198	.437	.544	.760	.579	.525	.420
33	-.007	.321	.341	.432	.427	.357	.091

Table 12. - Continued.

(b) $C_{T,s} = 0.80$, $q_s = 20.03$

$\alpha = 35°$

TUBE NO	1	2	3	4	5	6	7
			WING STATIONS				
1	.9617	.9044	.4229	-.6843	.1911	.6499	-1.0179
2	.2648	.0842	-.2000	-1.7186	-.7738	-.1694	-1.1597
3	-.3052	-.2238	-.3492	-1.9451	-1.1177	-.5922	-1.4335
4	-.4496	-.3947	-.6755	-1.9588	-1.3462	-.9577	-1.3626
5	-.2615	-1.0885	-.8778	-1.6962	-1.3555	-1.0266	-1.1997
6	*000.000	*000.000	*000.000	.1082	.4267	-.0560	-.2453
7	*000.000	*000.000	*000.000	-1.5333	-1.2599	-.7277	-.8446
8	*000.000	*000.000	*000.000	-2.0692	-2.0555	-1.6411	-1.4011
9	*000.000	*000.000	*000.000	-3.2339	-3.4982	-2.2455	-1.5111
10	-.9083	-1.1116	-1.2433	-2.7557	-2.3988	-1.4944	-1.0883
11	-.7266	-1.1170	*000.000	-1.1453	-1.5337	-.9022	-.7887
12	-1.1110	-.9803	-.7492	-.4060	-.2796	-.5335	-.5000
13	-.8174	-.7160	-.6941	-.5126	-.5061	-.4911	-.4662
14	-.6748	-.6678	-.5941	-.4557	-.4491	-.4357	-.4388
15	-.4607	-.4496	.3077	.5888	.3194	.4077	-.5371
16	-.3113	.0850	.3177	.4886	.4194	.3944	-.2650
17	-.1034	.0943	.3200	.4113	.3466	.3600	-.1394
18	-.0941	.0942	.2644	.3126	.2693	.1700	-.1218
19	-.3044	-.2237	-.0066	-.0594	-.0482	.2022	-.2187
20	-1.1102	-.8855	-.6677	-.6337	-.6859	-.5911	-.3677
21	-1.5669	-1.2695	-.9444	-.6678	-.8444	-.8411	-.6588
22	-1.7744	-1.4341	-1.4055	-.6656	-.8836	-.9119	-.7335
23	-1.4172	-.9330	-.4111	-.2497	-.3119	-.4489	-.6621
24	-.5647	-.4004	.1588	-.0358	.0447	-.1066	-.3110
25	1.0283	1.4204	.9803	.7353	1.1122	1.1222	-.3400
26	.7411	.9629	.6454	.2511	*000.000	-.0222	-.0594
27	-.1116	.2225	.3399	1.0339	1.0424	.2227	.2111
28	-.1144	.0486	.2086	.8009	.6812	.6084	.2183
29	-.0337	.2461	.3391	.6628	.5220	.3376	.1063
30	1.0660	1.1941	1.1427	1.0794	1.1118	1.1151	.2069
31	.4004	.6677	.6946	.8840	.7566	.7700	.4071
32	.1966	.4557	.5794	.8119	.5669	.4400	.3786
33	-.0388	.3331	.4117	.4833	.4122	.2933	-.0462

$\alpha = 40°$

TUBE NO	1	2	3	4	5	6	7
			WING STATIONS				
1	.7496	.6347	.1066	-1.0160	-.1077	.4044	-1.4471
2	-.0002	-.3268	-.6849	-2.2411	-1.2100	-.0652	-1.7360
3	-.3752	-.6098	-.9411	-2.4531	-1.5499	-.9711	-1.5006
4	-.7445	-1.1330	-1.1400	-2.5861	-1.6885	-1.3622	-1.4111
5	-1.0611	-1.3336	-1.2330	-2.4067	-1.6448	-1.3700	-1.2653
6	*000.000	*000.000	*000.000	.0106	.1455	-.0600	-.2511
7	*000.000	*000.000	*000.000	-1.7560	-1.4100	-.8688	-1.0003
8	*000.000	*000.000	*000.000	-2.4860	-2.0692	-1.6697	-1.4026
9	*000.000	*000.000	*000.000	-3.2238	-3.3494	-2.2210	-1.4678
10	-.9436	-1.2281	-1.4802	-2.7231	-2.4625	-1.5465	-1.1260
11	-.7426	-1.1184	*000.000	-1.0550	-1.4627	-.7000	-.6335
12	-1.2117	-.9118	-.7455	-.5223	-.8552	-.5088	-.6000
13	-.8888	-.8005	-.6557	-.5343	-.5554	-.5222	-.4447
14	-1.0238	-.7749	-.6002	-.5562	-.5588	-.5155	-.4119
15	-.4440	-.4962	.3488	.4993	.3002	.3881	-.5343
16	-.3122	.0020	.3122	.4006	.3800	.4433	-.2004
17	-.2849	.0228	.2845	.3338	.3333	.3655	-.1462
18	-.3102	-.0006	.2610	.2237	.2235	.1944	-.1141
19	-.9467	-.6295	-.4948	-.1288	-.1386	.2500	-.1753
20	-1.3353	-1.0944	-.7220	-.6778	-.6621	-.6294	-.4362
21	-1.9474	-1.4958	-1.1586	-.8260	-.8949	-.6883	-.5061
22	-2.1223	-1.6461	-1.1119	-.7869	-.8815	-.7422	-.5753
23	-1.8942	-1.2787	-.7505	-.3833	-.3447	-.3911	-.5840
24	-.9268	-.4047	.0083	-.1111	-.0334	-.1268	-.1933
25	1.1350	1.3334	.9855	.8388	1.1135	1.0533	-.8500
26	.7814	.9995	1.0088	.3511	*000.000	-.0249	-.0629
27	-.0834	.2884	.5285	.9993	1.0956	.3887	.1771
28	-.1222	.1868	.2943	.8488	.8011	.5088	.2766
29	-.0947	.2770	.4116	.5911	.4999	.4111	.2166
30	.9905	1.0965	1.0948	1.0288	1.0115	1.1733	.2100
31	.3811	.6871	.7000	.7869	.6999	.7488	.2998
32	.0990	.4442	.6386	.7533	.5642	.5500	.4133
33	-.0772	.2990	.4019	.4005	.3588	.2994	.0567

$\alpha = 45°$

TUBE NO	1	2	3	4	5	6	7
			WING STATIONS				
1	.6042	.4084	-.2794	-1.4446	-.4188	-.3986	-2.2941
2	-.2242	-.7114	-1.1062	-2.6661	-1.5212	-1.2711	-1.9511
3	-.6594	-1.1750	-1.4577	-2.8223	-1.9588	-1.4887	-1.8144
4	-1.0438	-1.4442	-1.6827	-2.7867	-2.0622	-1.8086	-1.7294
5	-1.2485	-1.4726	-1.6834	-2.3294	-1.8498	-1.6537	-1.2774
6	*000.000	*000.000	*000.000	.0861	.1333	-.0977	-.3330
7	*000.000	*000.000	*000.000	-1.9404	-1.6807	-1.4046	-1.1106
8	*000.000	*000.000	*000.000	-3.0588	-2.9475	-2.6041	-1.6618
9	*000.000	*000.000	*000.000	-3.6232	-3.5240	-2.2186	-1.4444
10	-1.0449	-1.4435	-1.5557	-2.4830	-2.4851	-1.5400	-1.0944
11	-.9479	-1.3383	*000.000	-1.1382	-1.4880	-.8442	-.7111
12	-1.2681	-1.1006	-.8885	-.5088	-.8260	-.5111	-.5500
13	-1.1021	-.8492	-.7066	-.5600	-.5554	-.4885	-.4117
14	-1.2683	-.8878	-.6822	-.5335	-.5188	-.5033	-.4377
15	-.5319	-.4964	.2988	.5477	.3115	.4000	-.4477
16	-.4451	-.0004	.2241	.4388	.3445	.3330	-.2881
17	-.4465	.0002	.2774	.3923	.3277	.3444	-.1779
18	-.4559	-.0029	.1779	.2943	.1889	-.1053	-.1188
19	-.0778	-.1760	-.1488	-.0555	-.0500	.1711	-.1168
20	-1.6114	-1.0495	-.8268	-.7755	-.8667	-.6339	-.4889
21	-2.2283	-1.5584	-1.2214	-.7871	-.8449	-.7155	-.5500
22	-2.4403	-1.6802	-1.2431	-.7770	-.8511	-.8746	-.5871
23	-1.7722	-1.0473	-.6111	-.3597	-.3335	-.4473	-.5611
24	-.6775	-.1105	.0443	-.0880	-.0228	-.0558	-.1179
25	1.0484	1.2433	.8514	.4883	1.0116	.5555	-1.3224
26	.6913	1.1104	1.1102	.4118	*000.000	-.0119	-.0881
27	-.0113	.1499	.6552	1.0865	1.1118	.3511	.1773
28	-.0498	.1146	.3194	.8330	.8011	.2811	.1444
29	-.1233	.2733	.3877	.6114	.4881	.3044	.1888
30	.9721	1.0498	1.1337	1.0611	1.0400	1.1088	-.1400
31	.3000	.6558	.6847	.7988	.6880	.7155	.0555
32	.0850	.4441	.5888	.6211	.5433	.4588	.3233
33	-.1211	.2942	.4211	.4445	.3466	.2880	-.0462

$\alpha = 50°$

TUBE NO	1	2	3	4	5	6	7
			WING STATIONS				
1	.4466	.4047	-.6111	-1.5744	-.5611	-.4958	-2.1659
2	-.3541	-1.0869	-1.5321	-2.8775	-1.8830	-1.4777	-2.1466
3	-.9088	-1.4409	-1.7674	-3.0711	-2.2280	-1.9741	-1.9011
4	-1.3306	-1.6861	-1.9443	-3.1353	-2.4665	-1.9601	-1.6038
5	-1.5507	-1.6962	-1.8430	-2.9326	-2.1662	-1.7294	-1.2766
6	*000.000	*000.000	*000.000	.0118	.0940	-.2468	-.3649
7	*000.000	*000.000	*000.000	-2.0008	-1.7400	-1.4034	-1.0460
8	*000.000	*000.000	*000.000	-3.0943	-3.0012	-2.6691	-1.2330
9	*000.000	*000.000	*000.000	-3.5005	-3.4906	-2.4008	-1.0943
10	-1.2222	-1.5576	-1.7144	-2.8885	-2.6614	-1.3301	-.8760
11	-1.1186	-1.4483	*000.000	-1.1115	-1.5332	-.6044	-.5743
12	-1.4115	-1.1096	-.9431	-.5333	-.8554	-.5249	-.4444
13	-1.2460	-1.0114	-.7766	-.6466	-.5587	-.4660	-.4088
14	-1.3223	-1.0117	-.7144	-.5887	-.5944	-.4352	-.2766
15	-.5541	-.4860	.2271	.5262	.4250	.3333	-.2224
16	-.4645	-.0014	.2246	.4863	.3953	.3397	-.1888
17	-.4838	-.0018	.2665	.3849	.2774	.3306	-.1356
18	-.4862	-.0060	.1440	.3178	.2110	.1999	-.1335
19	-.4870	-.4423	-.2226	-.1119	-.1888	.2110	-.1611
20	-1.7744	-1.1169	-.8119	-.7268	-.6717	-.5011	-.3268
21	-2.6068	-1.6724	-1.2496	-.9444	-.7664	-.3990	-.4688
22	-2.6712	-1.6756	-1.2494	-.7897	-.6958	-.3188	-.3890
23	-1.7705	-1.0866	-.6818	-.3760	-.2496	-.3688	-.3348
24	-.7103	-.1139	.0114	-.0944	-.1447	-.3699	-.3271
25	1.0446	1.1743	.8555	.4000	.1945	-.0779	-1.5551
26	.7711	1.1200	1.1491	.5462	*000.000	.0088	-.1339
27	.0228	.1593	.7455	1.0867	1.1120	.3225	.1444
28	-.0847	.2773	.3497	.8558	.7883	.2388	.1950
29	-.1353	.2773	.3447	.6554	.4490	.3449	.1371
30	.9459	1.1688	1.1388	1.1131	1.0778	1.2033	-.1350
31	.2922	.6700	.7449	.8088	.6555	.7116	-.0260
32	.0002	.4456	.6005	.7775	.5249	.4494	.3010
33	-.0941	.3324	.4277	.4861	.3011	.2433	-.0249

$\alpha = 55°$

TUBE NO	1	2	3	4	5	6	7
			WING STATIONS				
1	.3600	-.1340	-1.0355	-1.9333	-.9869	-1.0794	-.9811
2	-.7566	-1.4355	-1.9332	-3.3226	-2.3233	-1.3626	-.5377
3	-1.1566	-1.7900	-2.1133	-3.6511	-2.1999	-1.5444	-.5577
4	-1.5314	-2.0026	-2.2566	-3.4110	-2.0820	-1.1666	-.6411
5	-1.6942	-2.1141	-2.1111	-2.7594	-2.4441	-1.8336	-1.6026
6	*000.000	*000.000	*000.000	0.	.1038	-.1225	-.1455
7	*000.000	*000.000	*000.000	-1.9862	-1.7104	-1.4410	-1.3033
8	*000.000	*000.000	*000.000	-3.1855	-3.1115	-2.4700	-1.5071
9	*000.000	*000.000	*000.000	-3.7911	-3.6237	-2.4339	-1.4334
10	-1.4315	-1.6835	-1.6845	-2.8669	-2.4884	-1.3033	-1.2855
11	-1.2673	-1.5362	*000.000	-1.1770	-1.3622	-1.3111	-1.3188
12	-1.4407	-1.2210	-.9777	-.5771	-.6833	-1.2331	-1.3488
13	-1.4430	-1.0498	-.8337	-.6666	-.5559	-1.2477	-1.3271
14	-1.5869	-1.0223	-.8664	-.5336	-.4277	-1.2466	-1.2911
15	-.7111	-.9437	.2275	.5126	.2497	-1.2413	-1.2558
16	-.8806	-.0330	.2490	.4044	.3255	-1.3811	-1.2033
17	-.7111	-.0644	.2533	.3811	.3111	-1.3333	-1.1462
18	-.7753	-.0497	.1778	.2833	.2522	-1.1644	-1.1733
19	-1.0099	-.4467	-.2111	-.0922	-.0490	-1.1999	-1.1955
20	-1.4973	-1.3044	-.8833	-.7233	-.6388	-1.3566	-1.3862
21	-2.0557	-1.7688	-1.2247	-.7971	-.7111	-1.3211	-1.3644
22	-2.2727	-1.7492	-1.2281	-.7444	-.9557	-1.3077	-1.2882
23	-1.8943	-.9933	-.7211	-.4559	-.3233	-1.3499	-1.3201
24	-.9550	-.1123	.0332	-.1128	-.1159	-1.2699	-1.2988
25	1.1107	1.0998	.9488	.3115	.8599	-.9733	-1.1143
26	.7552	1.1778	1.1311	.4388	*000.000	.0822	-1.2033
27	.0967	.8600	.8700	1.0811	1.1922	.2122	.1255
28	-.1000	.2700	.4000	.8033	.7455	.2011	.1255
29	-.2400	.2544	.4355	.6311	.4533	.3088	.1977
30	.7599	1.1114	1.1455	1.1211	1.0200	1.0885	-1.2366
31	.2115	.6900	.7666	.7999	.5888	.6116	.0266
32	.0046	.4400	.6330	.7776	.5177	.4055	.2344
33	-.1552	.2844	.4366	.4609	.3433	.2266	.0113

$\alpha = 60°$

TUBE NO	1	2	3	4	5	6	7
			WING STATIONS				
1	.2355	-.3577	-1.3100	-1.8388	-1.3777	-.8622	-.7333
2	-.9200	-1.6166	-2.2055	-3.3894	-2.6752	-1.2322	-.5277
3	-1.3337	-2.0554	-2.4211	-3.6643	-3.2088	-.7077	-.4702
4	-1.7643	-2.2237	-2.3488	-3.4451	-3.1114	-.5377	-.4411
5	-1.8830	-2.3118	-2.1025	-2.7443	-2.4428	-.4452	-.4244
6	*000.000	*000.000	*000.000	-.0339	-.0577	-.1511	-.1222
7	*000.000	*000.000	*000.000	-2.0442	-1.5933	-.3444	-.3794
8	*000.000	*000.000	*000.000	-3.0449	-2.8336	-.3877	-.3660
9	*000.000	*000.000	*000.000	-3.5688	-3.3858	-.3115	-.3110
10	-1.4988	-1.7754	-1.7776	-2.3494	-2.0282	-.2775	-.2062
11	-1.3960	-1.6882	*000.000	-1.0881	-1.4210	-.2433	-.3844
12	-1.4460	-1.2677	-.9963	-.4955	-.6895	-.3114	-.3468
13	-1.5855	-1.1181	-.7777	-.5888	-.3677	-.2228	-.2554
14	-1.6778	-1.0854	-.6771	-.4655	-.3600	-.1955	-.3000
15	-1.7844	-1.0903	.2744	.5033	.4206	.3999	-.2344
16	-1.8855	-1.0116	.2318	.4088	.3443	.3554	-.2260
17	-1.8998	-1.1115	.2225	.3331	.2224	.2733	-.1788
18	-1.7844	-1.1477	.1733	.2055	.1211	.1844	-.2222
19	-1.1644	-1.5644	-.2022	-.1119	-.1144	.2499	-.2943
20	-2.1115	-1.3784	-.9444	-.7911	-.6655	-.4437	-.3062
21	-2.6941	-1.8477	-1.3334	-.7771	-.7137	-.2660	-.3119
22	-2.8211	-1.8434	-1.2779	-.7442	-.5902	-.3554	-.3550
23	-1.5395	-1.0899	-.6611	-.3494	-.3494	-.4433	-.4440
24	-.6580	-1.1068	.0440	-.0771	-.1889	-.3447	-.3871
25	1.0411	1.1022	.3444	.3644	.4007	-.4453	-.6880
26	.7110	1.2044	1.1611	.4588	*000.000	.1077	-.1844
27	-.0344	.6588	.8677	1.0886	1.1388	.0544	.0500
28	-.1277	.2766	.4110	.8288	.6944	.2099	.1233
29	-.2511	.2355	.3822	.5677	.3588	.2288	.1233
30	.6766	1.1072	1.1103	1.0599	.8864	.7200	-.0000
31	.2388	.7200	.7944	.7488	.6088	.6288	-.0800
32	.0113	.4417	.5885	.5594	.3944	.3999	.1443
33	-.1105	.2411	.3877	.3533	.2300	.2300	-.0433

Table 12.- Continued.

(b) $C_{T,s} = 0.80$, $q_s = 20.03$

$\alpha = 65°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.134	-.480	-1.449	-1.930	-1.852	-.504	-.450
2	-1.084	-1.753	-2.359	-3.365	-2.837	-.363	-.307
3	-1.432	-2.171	-2.377	-3.633	-3.281	-.425	-.367
4	-1.808	-2.339	-2.354	-3.283	-2.784	-.342	-.292
5	-1.928	-2.304	-2.060	-2.541	-2.362	-.320	-.442
6	*000.000	*000.000	*000.000	.029	.916	-.112	-.059
7	*000.000	*000.000	*000.000	-1.890	-1.576	-.289	-.263
8	*000.000	*000.000	*000.000	-3.043	-2.711	-.335	-.356
9	*000.000	*000.000	*000.000	-3.140	-3.230	-.286	-.285
10	-1.652	-1.799	-1.623	-2.263	-1.874	-.164	-.128
11	-1.554	-1.713	*000.000	-1.000	-.903	-.098	-.288
12	-1.358	-1.262	-.903	-.380	-.389	-.135	-.224
13	-1.498	-1.123	-.701	-.441	-.349	-.149	-.258
14	-1.685	-1.093	-.674	-.365	-.405	-.033	-.197
15	-.848	-.869	.304	.519	.198	.465	-.143
16	-1.041	-.859	.316	.417	.307	.405	-.199
17	-.927	-.067	.342	.453	.371	.339	-.118
18	-.887	-.147	.174	.266	.157	.205	-.067
19	-1.082	-.535	-.170	-.077	-.085	.281	-.155
20	-1.995	-1.307	-.827	-.614	-.474	-.248	-.278
21	-2.416	-1.667	-1.118	-.624	-.628	-.336	-.329
22	-2.456	-1.678	-1.201	-.608	-.526	-.275	-.309
23	-1.370	-.880	-.676	-.211	-.199	-.230	-.231
24	-.703	-.152	-.017	-.143	-.112	-.247	-.288
25	.449	1.046	.331	.414	.386	-.458	-.551
26	.857	1.181	1.122	.298	*000.000	.192	-.141
27	-.060	.898	1.166	.885	.228	.084	
28	-.206	.280	.431	.835	.624	.236	.148
29	-.304	.272	.340	.633	.321	.270	.194
30	.608	1.074	1.107	1.067	.866	.750	.076
31	.179	.840	.719	.721	.517	.551	.041
32	-.061	.426	.605	.691	.386	.424	.181
33	-.073	.297	.414	.389	.220	.238	.053

$\alpha = 70°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.026	-.622	-1.646	-2.045	-2.340	-.514	-.417
2	-1.243	-1.864	-2.345	-3.292	-2.945	-.276	-.268
3	-1.554	-2.283	-2.562	-3.650	-3.531	-.265	-.205
4	-2.037	-2.567	-2.566	-3.441	-2.863	-.364	-.288
5	-2.298	-2.641	-2.306	-2.820	-2.419	-.346	-.276
6	*000.000	*000.000	*000.000	-.060	-.157	-.034	.020
7	*000.000	*000.000	*000.000	-1.971	-1.572	-.414	-.364
8	*000.000	*000.000	*000.000	-2.800	-2.344	-.238	-.151
9	*000.000	*000.000	*000.000	-3.167	-2.837	-.336	-.218
10	-1.856	-1.982	-1.847	-2.266	-1.800	-.192	-.139
11	-1.620	-1.673	*000.000	-.888	-.835	-.133	-.118
12	-1.434	-1.358	-.915	-.350	-.383	-.198	-.240
13	-1.590	-1.202	-.738	-.389	-.344	-.224	-.220
14	-1.680	-1.078	-.663	-.496	-.400	-.172	-.268
15	-.775	-.818	.249	.365	.122	.305	-.075
16	-.948	-.018	.335	.294	.219	.240	-.078
17	-.902	-.067	.324	.349	.259	.237	-.075
18	-.910	-.134	.223	.229	.176	.176	.001
19	-1.075	-.516	-.162	-.059	-.088	.171	-.136
20	-1.952	-1.287	-.868	-.611	-.350	-.175	-.147
21	-2.480	-1.672	-1.149	-.570	-.510	-.249	-.220
22	-2.389	-1.671	-1.234	-.601	-.487	-.299	-.222
23	-1.303	-.844	-.669	-.306	-.348	-.301	-.268
24	-.598	-.106	.004	-.117	-.147	-.239	-.103
25	.901	.993	.178	.386	-.009	-.716	-.686
26	.666	1.218	1.130	.244	*000.000	.085	-.070
27	-.128	.762	.941	1.131	.945	.156	.184
28	-.197	.287	.435	.758	.430	.147	.128
29	-.257	.280	.376	.585	.280	.229	.256
30	.545	1.158	1.209	.901	.762	.610	.026
31	.099	.715	.747	.551	.352	.515	.056
32	-.002	.478	.637	.473	.281	.384	.294
33	-.130	.266	.429	.386	.186	.192	.098

$\alpha = 75°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.328	-.885	-1.834	-2.328	-2.875	-.411	-.412
2	-1.715	-2.158	-2.732	-3.423	-3.344	-.222	-.222
3	-2.134	-2.615	-2.844	-3.873	-3.633	-.367	-.388
4	-2.494	-2.913	-2.977	-3.751	-3.170	-.331	-.357
5	-2.522	-2.745	-2.427	-2.918	-2.473	-.350	-.304
6	*000.000	*000.000	*000.000	-.124	-.243	-.016	.031
7	*000.000	*000.000	*000.000	-1.879	-1.323	-.260	-.346
8	*000.000	*000.000	*000.000	-2.739	-2.193	-.327	-.314
9	*000.000	*000.000	*000.000	-2.937	-2.328	-.275	-.343
10	-1.976	-2.025	-1.847	-2.152	-1.424	-.166	-.323
11	-1.658	-1.715	*000.000	-.821	-.652	-.127	-.201
12	-1.389	-1.334	-.935	-.348	-.439	-.225	-.343
13	-1.426	-1.153	-.738	-.473	-.376	-.230	-.297
14	-1.549	-1.094	-.706	-.396	-.353	-.261	-.323
15	-.713	-.792	.231	.275	.269	.337	-.151
16	-.932	-.002	.337	.226	.202	.288	-.099
17	-.830	-.052	.317	.202	.207	.211	-.122
18	-.804	-.157	.185	.143	.153	.122	-.144
19	-.977	-.493	-.166	-.147	-.074	.057	-.238
20	-1.765	-1.263	-.879	-.589	-.400	-.332	-.419
21	-2.308	-1.731	-1.208	-.623	-.526	-.382	-.408
22	-2.205	-1.565	-1.145	-.466	-.292	-.276	-.318
23	-1.123	-.819	-.686	-.318	-.361	-.371	-.349
24	-.585	-.104	-.008	-.099	-.176	-.277	-.241
25	.785	.847	.035	.246	-1.076	-.391	-.382
26	.794	1.198	1.112	.292	*000.000	.084	-.144
27	.027	.805	.967	1.119	.352	.162	.037
28	-.219	.348	.494	.820	.310	.148	.147
29	-.286	.262	.374	.492	.247	.191	.187
30	.905	1.045	1.073	.867	.803	.428	-.002
31	.121	.672	.716	.292	.211	.339	-.116
32	-.059	.344	.520	.289	.160	.250	.078
33	-.054	.255	.396	.247	.213	.200	.021

$\alpha = 80°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.520	-.974	-1.835	-2.350	-2.807	-.311	-.249
2	-1.998	-2.455	-2.861	-3.654	-2.686	-.303	-.258
3	-2.389	-2.665	-2.747	-3.590	-3.065	-.359	-.300
4	-2.524	-2.830	-2.702	-3.536	-2.303	-.327	-.308
5	-2.658	-2.830	-2.502	-2.991	-1.589	-.437	-.369
6	*000.000	*000.000	*000.000	-.093	-.414	-.086	-.018
7	*000.000	*000.000	*000.000	-1.620	-1.172	-.398	-.374
8	*000.000	*000.000	*000.000	-2.614	-1.662	-.322	-.422
9	*000.000	*000.000	*000.000	-2.087	-1.680	-.308	-.280
10	-2.160	-2.141	-1.802	-1.069	-.907	-.296	-.310
11	-1.701	-1.665	*000.000	-.861	-.530	-.308	-.296
12	-1.288	-1.370	-.880	-.415	-.388	-.280	-.285
13	-1.353	-1.096	-.834	-.438	-.243	-.326	-.280
14	-1.385	-1.008	-.837	-.500	-.347	-.253	-.267
15	-.628	-.857	.195	.149	.137	.218	-.056
16	-.852	-.022	.298	.067	.110	.130	-.156
17	-.794	-.067	.283	.091	.068	.122	-.133
18	-.893	-.128	.188	-.021	.093	.076	-.112
19	-.953	-.487	-.238	-.236	-.173	.007	-.227
20	-1.614	-1.133	-.756	-.560	-.361	-.305	-.347
21	-2.085	-1.596	-1.159	-.581	-.478	-.438	-.434
22	-1.920	-1.490	-1.137	-.487	-.383	-.426	-.383
23	-.827	-.655	-.547	-.328	-.302	-.314	-.222
24	-.413	-.068	-.031	-.196	-.237	-.225	-.220
25	.666	.755	-.027	.205	-1.040	-.477	-.526
26	.551	1.062	.996	.049	*000.000	.110	-.060
27	-.132	.774	.938	.839	.202	.114	.012
28	-.300	.285	.412	.638	.242	.173	.161
29	-.288	.230	.381	.312	.212	.176	.174
30	.443	.977	1.021	.435	.431	.351	.045
31	.112	.605	.650	.290	.148	.269	.040
32	-.053	.362	.478	.209	.187	.241	.201
33	-.050	.222	.325	.231	.154	.126	.055

Table 12. - Continued.

(c) $C_{T,S} = 0.60$, $q_s = 21.76$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.058	1.008	.569	.475	1.037	.991	.790
2	.952	1.041	.659	.515	1.072	1.116	.813
3	.784	.884	.625	.533	.953	1.018	.737
4	.409	.462	.417	.451	.647	.689	.461
5	-.032	-.017	-.035	.218	.238	.301	.133
6	.000,000	.000,000	.000,000	-.044	.031	-.086	-.091
7	.000,000	.000,000	.000,000	.131	.282	.440	.295
8	.000,000	.000,000	.000,000	-.831	-.805	-.659	-.700
9	.000,000	.000,000	.000,000	-1.908	-2.038	-1.662	-1.554
10	-.398	-.573	-.736	-2.066	-1.701	-1.353	-1.180
11	-.539	-.836	.000,000	-1.093	-1.284	-.982	-.876
12	-.821	-.634	-.551	-.650	-.862	-.652	-.628
13	-.321	-.534	-.451	-.496	-.629	-.501	-.458
14	-.328	-.512	-.431	-.452	-.574	-.463	-.422
15	-.223	-1.587	.219	.317	.321	.261	-.256
16	.212	.067	.252	.209	.197	.152	-.106
17	.225	.145	.207	.228	.171	.124	-.047
18	.224	.106	.139	.129	.138	.100	-.050
19	.071	-.097	-.011	-.084	-.129	.046	-.131
20	-.422	-.548	-.363	-.544	-.508	-.442	-.406
21	-.692	-.795	-.600	-.691	-.773	-.686	-.564
22	-.693	-.756	-.530	-.597	-.604	-.601	-.490
23	-.468	-.327	-.071	-.139	-.102	-.202	-.318
24	-.187	.032	.015	.029	-.036	-.063	-.096
25	.364	.129	-.183	.119	.460	.259	.123
26	-.494	-.823	-.507	-.074	.000,000	-.062	.501
27	-.637	-.709	-.436	-.118	.080	-.059	-.142
28	-.326	-.350	-.029	.067	-.088	.037	.006
29	-.016	.092	.225	.320	.329	.237	.225
30	.964	.934	.429	.646	.633	.587	.342
31	.408	.473	.340	.627	.539	.502	.275
32	.182	.309	.323	.607	.515	.441	.320
33	.051	.214	.258	.329	.368	.294	.110

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.158	1.210	.623	.489	1.131	1.094	.832
2	.724	.782	.431	.186	.794	.846	.625
3	.574	.632	.313	.105	.589	.742	.521
4	.148	.162	-.065	-.005	.218	.358	.134
5	-.257	-.336	-.452	-.045	-.118	-.103	-.211
6	.000,000	.000,000	.000,000	-.100	.015	.037	-.014
7	.000,000	.000,000	.000,000	-.555	-.422	-.264	-.296
8	.000,000	.000,000	.000,000	-1.377	-1.421	-1.143	-1.073
9	.000,000	.000,000	.000,000	-2.130	-2.337	-1.935	-1.753
10	-.501	-.728	-.961	-2.438	-1.981	-1.635	-1.507
11	-.690	-1.016	.000,000	-1.283	-1.558	-1.255	-1.177
12	-.921	-.658	-.637	-.888	-.928	-.728	-.728
13	-.376	-.576	-.506	-.569	-.687	-.570	-.561
14	-.436	-.555	-.470	-.548	-.641	-.579	-.537
15	-.301	-1.490	.324	.371	.299	.375	.397
16	.123	.070	.261	.291	.293	.263	.172
17	.194	.113	.188	.281	.249	.233	.096
18	.166	.118	.173	.194	.177	.117	.116
19	-.026	-.135	-.056	-.135	-.238	.127	-.236
20	-.599	-.592	-.438	-.661	-.714	-.659	-.474
21	-.961	-.921	-.722	-.759	-.900	-.810	-.627
22	-1.046	-.895	-.742	-.660	-.787	-.761	-.655
23	-.741	-.286	-.184	-.199	-.250	-.332	-.415
24	-.344	.058	.090	.093	.113	.057	-.131
25	.755	.719	.354	.452	.717	.622	.517
26	-.034	-.175	.113	-.219	.000,000	.071	.307
27	-.403	-.355	-.231	.128	-.073	.063	.011
28	-.169	-.136	.039	.555	.295	.123	.188
29	-.010	.164	.250	.409	.484	.444	.310
30	.975	.992	.566	.820	.914	.861	.561
31	.566	.552	.421	.643	.700	.667	.508
32	.242	.342	.421	.646	.557	.479	.482
33	.063	.325	.352	.399	.409	.329	-.060

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.041	1.097	.348	.224	.907	1.055	.714
2	.456	.513	.001	-.236	.377	.563	.258
3	.220	.183	-.257	-.461	.068	.296	.086
4	-.235	-.293	-.522	-.656	-.330	-.151	-.308
5	-.569	-.763	-.847	-.745	-.715	-.607	-.674
6	.000,000	.000,000	.000,000	-1.020	.002	-.021	-.089
7	.000,000	.000,000	.000,000	-1.001	-.805	-.574	-.600
8	.000,000	.000,000	.000,000	-1.935	-1.924	-1.646	-1.597
9	.000,000	.000,000	.000,000	-2.551	-2.859	-2.459	-2.232
10	-.684	-.939	-1.031	-2.635	-2.192	-1.898	-1.761
11	-.799	-1.162	.000,000	-1.349	-1.715	-1.371	-1.298
12	-1.093	-.750	-.703	-.643	-.977	-.820	-.786
13	-.485	-.600	-.521	-.510	-.645	-.576	-.578
14	-.526	-.529	-.429	-.451	-.569	-.513	-.458
15	-.411	-1.688	.365	.433	.307	.315	-.458
16	.056	.046	.376	.424	.326	.283	-.121
17	.091	.065	.280	.349	.272	.280	-.113
18	.115	.083	.230	.273	.226	.147	-.127
19	-.093	-.142	-.047	-.089	-.169	.135	-.178
20	-.780	-.675	-.496	-.697	-.712	-.701	-.458
21	-1.151	-1.005	-.817	-.723	-.842	-.737	-.601
22	-1.353	-1.004	-.812	-.676	-.780	-.768	-.644
23	-1.006	-.425	-.214	-.236	-.263	-.372	-.457
24	-.443	.047	.115	.066	.088	.039	-.128
25	.955	.949	.438	.532	.916	.878	.718
26	.340	.409	.522	.004	.000,000	.047	.258
27	-.164	-.036	.198	.611	-.116	.114	.095
28	-.160	-.025	.263	.638	.866	.510	.234
29	-.020	.228	.361	.508	.465	.448	.345
30	1.024	1.088	.708	1.013	1.053	1.011	.846
31	.414	.575	.545	.839	.888	.683	.587
32	.188	.408	.437	.588	.530	.476	.489
33	.028	.328	.399	.600	.408	.361	-.001

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.916	.845	-.176	-.286	.567	.866	.333
2	.140	-.037	-.758	-1.049	-.225	.143	-.171
3	-.184	-.421	-.921	-1.325	-.684	-.160	-.388
4	-.578	-.939	-1.219	-1.451	-.932	-.633	-.820
5	-.867	-1.251	-1.292	-1.398	-1.137	-.862	-.956
6	.000,000	.000,000	.000,000	-.023	.069	-.033	-.041
7	.000,000	.000,000	.000,000	-1.556	-1.247	-1.013	-1.033
8	.000,000	.000,000	.000,000	-2.337	-2.341	-2.093	-2.038
9	.000,000	.000,000	.000,000	-3.187	-3.429	-3.004	-2.744
10	-.850	-1.236	-1.329	-3.047	-2.920	-2.183	-1.979
11	-.863	-1.300	.000,000	-1.419	-1.795	-1.477	-1.383
12	-1.200	-.891	-.807	-.677	-1.004	-.862	-.884
13	-.577	-.722	-.613	-.598	-.882	-.635	-.634
14	-.687	-.639	-.542	-.526	-.558	-.552	-.527
15	-.350	-1.643	.344	.455	.304	.305	-.472
16	-.066	.055	.346	.438	.320	.306	-.227
17	-.043	.032	.269	.341	.263	.314	-.280
18	-.067	.025	.210	.228	.191	.167	-.218
19	-.234	-.225	-.037	-.100	-.178	.166	-.225
20	-1.045	-.899	-.676	-.795	-.787	-.818	-.545
21	-1.406	-1.166	-.956	-.713	-.772	-.780	-.653
22	-1.642	-1.148	-.941	-.667	-.678	-.764	-.646
23	-1.339	-.538	-.399	-.262	-.226	-.347	-.491
24	-.561	.018	.070	.018	.024	.025	-.139
25	1.160	1.253	.522	.740	1.131	1.106	.622
26	.593	.799	.763	.115	.000,000	-.025	.233
27	.002	.179	.413	.929	.640	.242	.277
28	-.059	.088	.284	.683	.715	.701	.446
29	-.021	.264	.399	.552	.505	.516	.387
30	.939	1.054	.928	.966	1.013	1.059	.704
31	.447	.611	.580	.708	.674	.704	.502
32	.232	.485	.534	.630	.592	.547	.526
33	.046	.345	.440	.490	.385	.367	-.023

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.682	.496	-.625	-.800	-.040	.526	-.508
2	-.277	-.587	-1.359	-1.825	-1.005	-.397	-1.041
3	-.600	-.986	-1.562	-2.113	-1.383	-.702	-1.254
4	-1.080	-1.604	-1.886	-2.114	-1.544	-1.096	-1.484
5	-1.296	-1.916	-1.955	-2.075	-1.620	-1.240	-1.314
6	.000,000	.000,000	.000,000	.023	.061	-.047	-.089
7	.000,000	.000,000	.000,000	-1.824	-1.546	-1.252	-1.368
8	.000,000	.000,000	.000,000	-2.996	-2.908	-2.373	-2.279
9	.000,000	.000,000	.000,000	-3.565	-3.783	-3.118	-2.896
10	-1.084	-1.565	-1.738	-3.390	-2.879	-2.428	-2.274
11	-.980	-1.423	.000,000	-1.470	-1.831	-1.436	-1.347
12	-1.380	-.967	-.896	-.737	-1.042	-.876	-.911
13	-.779	-.830	-.709	-.635	-.742	-.677	-.644
14	-.972	-.772	-.622	-.618	-.640	-.608	-.638
15	-.380	-1.611	.326	.483	.286	.338	-.636
16	-.274	.078	.362	.399	.310	.293	-.399
17	-.292	.051	.309	.362	.262	.306	-.297
18	-.239	.042	.194	.230	.160	.166	-.219
19	-.466	-.287	-.154	-.178	-.182	.158	-.257
20	-1.245	-.942	-.779	-.806	-.763	-.780	-.668
21	-1.876	-1.355	-1.098	-.856	-.841	-.784	-.716
22	-2.078	-1.319	-1.065	-.789	-.784	-.857	-.707
23	-1.681	-.614	-.423	-.318	-.296	-.447	-.588
24	-.645	.021	.018	-.003	-.006	-.029	-.205
25	1.215	1.275	.409	.646	1.068	1.115	.049
26	.744	1.054	.867	.216	.000,000	-.103	.195
27	.200	.451	.610	.959	.929	.474	.367
28	.017	.201	.376	.788	.792	.664	.410
29	-.025	.331	.492	.636	.554	.488	.293
30	.947	1.077	1.065	1.018	.983	1.014	.661
31	.431	.688	.686	.979	.706	.742	.552
32	.193	.522	.659	.654	.595	.580	.500
33	.006	.367	.395	.511	.418	.353	-.033

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.342	-.042	-1.151	-1.397	-.453	.240	-1.059
2	-.773	-1.314	-2.100	-2.771	-1.727	-.882	-1.592
3	-1.062	-1.692	-2.312	-2.848	-1.985	-1.122	-1.646
4	-1.496	-2.071	-2.411	-2.828	-2.148	-1.429	-1.618
5	-1.706	-2.316	-2.219	-2.503	-2.012	-1.551	-1.538
6	.000,000	.000,000	.000,000	-.003	.127	-.023	-.190
7	.000,000	.000,000	.000,000	-2.114	-1.790	-1.288	-1.365
8	.000,000	.000,000	.000,000	-3.165	-3.112	-2.344	-2.196
9	.000,000	.000,000	.000,000	-4.995	-4.222	-3.232	-2.780
10	-1.206	-1.630	-1.672	-3.454	-2.784	-2.064	-1.765
11	-1.102	-1.564	.000,000	-1.544	-1.842	-1.331	-1.181
12	-1.449	-1.010	-.997	-.725	-1.045	-.756	-.745
13	-.949	-.890	-.663	-.686	-.777	-.685	-.640
14	-1.166	-.868	-.695	-.641	-.726	-.664	-.580
15	-.463	-1.668	.378	.558	.358	.318	-.654
16	-.495	.090	.440	.417	.346	.324	-.289
17	-.534	.047	.236	.367	.315	.322	-.239
18	-.526	.005	.117	.245	.202	.135	-.192
19	-.693	-.349	-.219	-.178	-.216	.153	-.287
20	-1.584	-1.073	-.905	-.877	-.828	-.858	-.580
21	-2.307	-1.507	-1.205	-.916	-1.030	-.929	-.696
22	-2.498	-1.420	-1.205	-.822	-.882	-.757	-.528
23	-2.083	-.819	-.612	-.365	-.356	-.521	-.645
24	-.832	-.025	.210	.028	.017	-.089	-.320
25	1.201	1.211	.323	.466	.965	1.082	-.139
26	.938	1.189	.960	.494	.000,000	.105	.221
27	.321	.673	.802	1.078	.913	.696	.437
28	.041	.369	.685	.859	.848	.648	.366
29	-.071	.396	.634	.834	.599	.476	.374
30	.860	1.114	1.164	1.072	1.019	1.019	.470
31	.381	.721	.691	.816	.714	.732	.506
32	.147	.538	.713	.629	.598	.515	.470
33	-.050	.376	.581	.494	.398	.335	-.048

Table 12.- Continued.

(c) $C_{T,s} = 0.60$, $q_s = 21.76$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	0.	-.644	-1.465	-2.120	-.930	0.	-1.735
2	-1.162	-1.445	-2.814	-3.272	-2.043	-1.118	-1.998
3	-1.505	-2.371	-2.910	-3.534	-2.586	-1.389	-1.910
4	-1.735	-2.514	-2.856	-3.376	-2.537	-1.763	-1.761
5	-1.763	-2.468	-2.410	-2.731	-2.243	-1.653	-1.422
6	*000.000	*000.000	*000.000	-.038	.093	.030	-.216
7	*000.000	*000.000	*000.000	-2.421	-2.017	-1.414	-1.474
8	*000.000	*000.000	*000.000	-3.571	-3.375	-2.310	-2.043
9	*000.000	*000.000	*000.000	-4.195	-4.404	-3.311	-2.595
10	-1.367	-1.851	-1.964	-3.544	-2.819	-2.014	-1.585
11	-1.175	-1.601	*000.000	-1.542	-1.766	-1.188	-.980
12	-1.530	-1.095	-1.007	-.795	-.997	-.657	-.657
13	-1.189	-1.042	-.850	-.746	-.741	-.535	-.562
14	-1.412	-.967	-.719	-.688	-.683	-.554	-.497
15	-.946	-1.039	.416	.599	.402	.311	-.474
16	-.757	.099	.403	.425	.352	.264	-.346
17	-.776	.032	.342	.350	.338	.324	-.179
18	-.966	-.006	.248	.257	.223	.135	-.143
19	-.866	-.347	-.199	-.183	-.167	.117	-.195
20	-1.787	-1.157	-.859	-.843	-.734	-.698	-.409
21	-2.762	-1.743	-1.362	-1.077	-1.156	-.781	-.566
22	-2.806	-1.582	-1.234	-.901	-1.029	-.803	-.672
23	-2.219	-.857	-.649	-.450	-.457	-.554	-.583
24	-.822	-.020	.041	-.015	.029	-.011	-.180
25	1.101	.990	-.061	.183	.807	1.061	-.575
26	1.114	1.326	1.095	.847	*000.000	.163	.184
27	.430	.895	1.030	1.093	1.111	.663	.396
28	.098	.466	.622	.901	.893	.641	.386
29	-.078	.453	.606	.836	.630	.454	.373
30	.854	1.259	1.270	1.167	1.154	1.169	.542
31	.352	.758	.761	.809	.765	.797	.459
32	.147	.566	.689	.676	.623	.542	.412
33	-.067	.374	.485	.503	.397	.377	-.001

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.457	-1.361	-2.678	-2.950	-1.732	-1.129	-2.604
2	-1.681	-2.759	-3.833	-4.561	-3.066	-1.975	-2.901
3	-1.912	-2.977	-3.708	-4.617	-3.577	-2.472	-2.740
4	-2.261	-3.160	-3.544	-4.332	-3.230	-2.264	-2.268
5	-2.216	-3.030	-2.979	-3.370	-2.828	-2.282	-1.687
6	*000.000	*000.000	*000.000	-.088	.027	-.103	-.186
7	*000.000	*000.000	*000.000	-2.760	-2.246	-1.493	-1.437
8	*000.000	*000.000	*000.000	-3.874	-3.518	-2.273	-1.859
9	*000.000	*000.000	*000.000	-4.228	-4.291	-2.944	-2.249
10	-1.590	-2.134	-2.283	-3.539	-2.853	-1.886	-1.398
11	-1.382	-1.804	*000.000	-1.597	-1.734	-1.013	-.823
12	-1.466	-1.137	-.910	-.784	-.894	-.598	-.565
13	-1.392	-1.171	-.837	-.736	-.756	-.592	-.521
14	-1.783	-1.172	-.807	-.764	-.752	-.632	-.571
15	-.817	-1.693	.432	.578	.350	.414	-.358
16	-1.001	.054	.420	.443	.317	.352	-.198
17	-1.071	-.004	.370	.365	.280	.326	-.210
18	-1.083	-.057	.292	.258	.194	.136	-.198
19	-1.156	-.515	-.194	-.194	-.237	.174	-.239
20	-2.198	-1.328	-.956	-.931	-.877	-.716	-.458
21	-2.868	-1.756	-1.295	-.971	-1.015	-.807	-.689
22	-3.523	-1.921	-1.398	-1.030	-1.169	-1.029	-.780
23	-2.430	-.979	-.675	-.495	-.415	-.543	-.747
24	-1.078	-.073	.095	-.046	-.019	-.119	-.099
25	1.000	.693	-.410	-.201	.595	.331	-1.235
26	1.115	1.279	1.153	.797	*000.000	.119	.031
27	.512	.976	1.116	1.134	1.055	.686	.377
28	.123	.534	.703	.913	.864	.413	.514
29	-.075	.420	.592	.680	.558	.435	.329
30	.773	1.199	1.237	1.135	1.096	1.098	.180
31	.339	.794	.854	.840	.747	.732	.430
32	.117	.583	.746	.876	.574	.526	.598
33	-.029	.349	.508	.478	.361	.320	.062

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.769	-2.031	-3.413	-3.527	-2.139	-2.253	-3.106
2	-2.170	-3.460	-4.526	-5.081	-3.560	-2.690	-3.120
3	-2.459	-3.658	-4.395	-5.165	-4.052	-2.880	-3.109
4	-2.759	-3.832	-4.270	-4.723	-3.599	-2.501	-2.395
5	-2.573	-3.467	-3.461	-3.800	-3.060	-2.121	-1.819
6	*000.000	*000.000	*000.000	-.067	-.025	-.253	-.493
7	*000.000	*000.000	*000.000	-2.880	-2.280	-1.528	-1.471
8	*000.000	*000.000	*000.000	-4.159	-3.753	-2.223	-1.901
9	*000.000	*000.000	*000.000	-4.887	-5.051	-2.947	-2.348
10	-1.791	-2.305	-2.456	-3.541	-3.000	-1.842	-1.384
11	-1.482	-1.836	*000.000	-1.518	-1.670	-.856	-.699
12	-1.621	-1.291	-.990	-.868	-.993	-.618	-.600
13	-1.580	-1.211	-.873	-.697	-.756	-.525	-.488
14	-1.885	-1.150	-.754	-.656	-.702	-.493	-.431
15	-.969	-1.549	.456	.575	.273	.424	-.125
16	-1.177	.082	.341	.440	.311	.323	-.096
17	-1.222	-.013	.338	.405	.277	.295	-.117
18	-1.112	-.043	.238	.254	.182	.166	-.129
19	-1.409	-.511	-.192	-.101	-.219	.147	-.115
20	-2.311	-1.328	-.906	-.781	-.780	-.583	-.442
21	-3.313	-1.997	-1.311	-.952	-1.066	-.723	-.531
22	-3.435	-1.832	-1.326	-.778	-.808	-.694	-.588
23	-2.270	-.932	-.634	-.400	-.394	-.420	-.449
24	-1.275	-.116	.060	-.097	-.055	-.193	-.268
25	.817	.339	-.722	-.475	.444	-1.284	-1.878
26	1.089	1.320	1.152	.857	*000.000	.246	-.060
27	.531	1.083	1.202	1.105	.966	.314	.315
28	.133	.596	.748	.972	.845	.337	.300
29	-.126	.458	.589	.740	.538	.390	.384
30	.638	1.141	1.239	1.124	1.088	.931	.148
31	.268	.669	.877	.905	.728	.660	.354
32	.086	.556	.766	.704	.582	.508	.371
33	-.071	.385	.553	.518	.386	.331	.100

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.069	-2.603	-4.310	-4.125	-3.036	-1.166	-1.430
2	-2.661	-4.193	-5.398	-5.945	-4.505	-1.666	-1.059
3	-2.818	-4.510	-5.272	-6.054	-4.820	-1.265	-.835
4	-3.065	-4.318	-4.825	-5.405	-4.358	-.787	-.651
5	-2.718	-3.619	-3.896	-3.956	-3.320	-.776	-.557
6	*000.000	*000.000	*000.000	-.153	-.138	-.132	-.081
7	*000.000	*000.000	*000.000	-3.345	-2.737	-.576	-.767
8	*000.000	*000.000	*000.000	-4.458	-3.951	-.517	-.608
9	*000.000	*000.000	*000.000	-4.836	-4.778	-.493	-.505
10	-1.878	-2.440	-2.539	-3.085	-2.635	-.505	-.497
11	-1.588	-1.972	*000.000	-1.508	-1.500	-.378	-.564
12	-1.774	-1.457	-1.131	-.817	-.775	-.296	-.405
13	-1.775	-1.286	-.898	-.730	-.652	-.298	-.364
14	-2.042	-1.174	-.778	-.661	-.577	-.297	-.430
15	-1.136	-1.553	.438	.528	.254	.432	-.237
16	-1.409	.044	.347	.398	.300	.338	-.045
17	-1.433	-.084	.303	.367	.291	.329	-.077
18	-1.368	-.155	.179	.243	.144	.174	-.101
19	-1.568	-.591	-.287	-.137	-.177	.188	-.160
20	-2.578	-1.472	-1.067	-.841	-.655	-.476	-.511
21	-3.678	-2.142	-1.558	-.882	-.725	-.456	-.545
22	-3.552	-1.938	-1.395	-.801	-.633	-.429	-.439
23	-2.133	-1.028	-.742	-.405	-.377	-.415	-.429
24	-1.363	-.155	-1.021	-.170	-.401	-.458	-.385
25	.092	-.022	-1.342	-.763	.065	-1.165	-1.021
26	1.137	1.275	1.044	.800	*000.000	.319	-.137
27	.545	1.174	1.215	.850	.908	.362	.312
28	.138	.671	.797	.941	.773	.395	.347
29	-.146	.428	.571	.664	.446	.376	.388
30	.628	1.249	1.268	1.196	1.060	.920	.229
31	.302	.852	.882	.666	.662	.548	.388
32	.022	.564	.705	.588	.465	.429	.383
33	-.043	.348	.492	.439	.250	.234	.124

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.518	-3.170	-4.662	-4.300	-3.238	-1.238	-1.389
2	-2.972	-4.711	-5.870	-6.095	-4.485	-.619	-.611
3	-3.581	-5.429	-6.123	-6.746	-5.529	-.629	-.625
4	-3.587	-5.089	-5.524	-6.204	-4.633	-.608	-.615
5	-2.934	-3.849	-3.854	-4.027	-3.171	-.462	-.481
6	*000.000	*000.000	*000.000	-.240	-.301	-.110	-.144
7	*000.000	*000.000	*000.000	-2.550	-2.046	-.699	-.687
8	*000.000	*000.000	*000.000	-3.479	-3.041	-.475	-.537
9	*000.000	*000.000	*000.000	-3.480	-3.269	-.436	-.488
10	-2.002	-2.574	-2.512	-2.192	-1.912	-.396	-.387
11	-1.783	-2.089	*000.000	-1.298	-.733	-.353	-.379
12	-1.926	-1.412	-1.042	-.693	-.562	-.251	-.351
13	-2.106	-1.372	-.950	-.692	-.518	-.196	-.427
14	-2.328	-1.302	-.905	-.578	-.440	-.292	-.410
15	-1.071	-1.318	.391	.428	.330	.415	-.046
16	-1.412	.045	.327	.338	.290	.333	-.104
17	-1.316	-.068	.247	.308	.289	.273	-.066
18	-1.390	-.159	.150	.237	.187	.123	-.094
19	-1.675	-.662	-.393	-.142	-.090	.190	-.290
20	-2.511	-1.421	-1.043	-.760	-.566	-.328	-.447
21	-3.422	-1.967	-1.346	-.808	-.503	-.363	-.523
22	-3.494	-1.936	-1.361	-.548	-.504	-.462	-.588
23	-1.753	-.965	-.795	-.445	-.549	-.493	-.524
24	-.935	-.092	-.072	-.236	-.322	-.305	-.299
25	.518	-.403	-1.892	-1.006	-.452	-1.093	-.847
26	1.046	1.273	.974	.818	*000.000	.345	-.137
27	.507	1.157	1.221	.844	.840	.355	.271
28	.113	.664	.813	.957	.520	.406	.366
29	-.151	.444	.593	.717	.427	.434	.402
30	.613	1.212	1.257	.862	.898	.685	.240
31	.218	.819	.850	.619	.496	.462	.415
32	.051	.523	.663	.506	.357	.397	.314
33	.004	.308	.425	.462	.212	.255	.132

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.755	-3.814	-5.578	-4.941	-4.077	-.653	-.958
2	-3.419	-5.499	-6.733	-6.952	-4.679	-.618	-.584
3	-3.692	-5.594	-6.361	-6.595	-4.812	-.650	-.563
4	-3.755	-5.142	-5.530	-5.736	-3.977	-.560	-.447
5	-3.313	-4.221	-4.161	-3.991	-2.855	-.465	-.409
6	*000.000	*000.000	*000.000	-.116	-.463	-.068	-.025
7	*000.000	*000.000	*000.000	-2.236	-1.773	-.607	-.539
8	*000.000	*000.000	*000.000	-3.497	-2.725	-.459	-.507
9	*000.000	*000.000	*000.000	-2.680	-1.712	-.357	-.485
10	-2.225	-2.684	-2.665	-1.563	-1.112	-.315	-.341
11	-1.790	-2.031	*000.000	-1.044	-.599	-.313	-.344
12	-1.563	-1.401	-.996	-.448	-.420	-.309	-.329
13	-1.763	-1.069	-.702	-.396	-.327	-.275	-.355
14	-2.121	-1.077	-.751	-.409	-.366	-.318	-.443
15	-1.118	-1.373	.403	.551	.311	.357	-.092
16	-1.352	.081	.345	.367	.233	.254	-.014
17	-1.249	-.014	.296	.296	.274	.245	-.066
18	-1.338	-.118	.152	.283	.135	.149	-.139
19	-1.484	-.584	-.326	-.170	-.170	.059	-.255
20	-2.616	-1.415	-.995	-.614	-.470	-.458	-.503
21	-3.628	-1.932	-1.080	-.384	-.490	-.392	-.543
22	-3.038	-1.791	-1.315	-.424	-.414	-.405	-.543
23	-1.405	-.883	-.773	-.419	-.460	-.458	-.533
24	-.645	-.156	-.237	-.376	-.331	-.317	-.294
25	.375	-.665	-2.302	-1.130	-2.178	-1.251	-.811
26	1.042	1.263	.873	.904	*000.000	.321	-.140
27	.412	1.256	1.230	1.180	.458	.363	.285
28	.084	.724	.849	.897	.475	.414	.402
29	-.195	.370	.510	.751	.381	.345	.344
30	.563	1.159	1.160	.982	.786	.572	.344
31	.135	.826	.822	.659	.386	.437	.384
32	-.009	.526	.645	.507	.351	.359	.360
33	-.067	.310	.385	.321	.244	.213	.118

Table 12. - Continued.

(d) $C_{T,S} = 0.30$, $q_s = 19.50$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.032	1.121	.756	.533	.982	.866	.856
2	.735	.863	.530	.516	1.127	1.112	.995
3	.578	.639	.314	.624	1.047	1.015	.966
4	.044	-.035	-.282	.398	.841	.647	.555
5	-.301	-.431	-.633	.200	.246	.312	.345
6	*000.000	*000.000	*000.000	-.141	-.218	-.344	-.336
7	*000.000	*000.000	*000.000	-.187	.284	.324	.211
8	*000.000	*000.000	*000.000	-1.174	-1.071	-.963	-.911
9	*000.000	*000.000	*000.000	-2.613	-2.632	-2.298	-2.170
10	-.680	-.961	-1.348	-2.518	-2.025	-1.756	-1.615
11	-.794	-1.127	*000.000	-1.472	-1.508	-1.298	-1.198
12	-1.135	-.773	-.752	-.660	-.973	-.845	-.759
13	-.511	-.715	-.648	-.629	-.723	-.737	-.635
14	-.493	-.615	-.510	-.487	-.613	-.551	-.490
15	-.433	-1.183	.152	.122	.110	.066	-.209
16	.054	.010	.142	.088	.080	.013	-.141
17	.099	.037	.145	.084	.076	.076	-.038
18	.101	.041	.053	.026	-.019	-.003	-.114
19	-.081	-.188	-.115	-.182	-.194	-.034	-.179
20	-.598	-.667	-.490	-.480	-.501	-.567	-.523
21	-1.000	-.998	-.791	-.562	-.808	-.775	-.622
22	-1.125	-1.039	-.813	-.508	-.608	-.813	-.690
23	-.801	-.418	-.081	-.092	-.154	-.269	-.343
24	-.430	-.011	-.058	-.074	-.089	-.162	-.129
25	.564	.535	.282	-.026	.257	.011	.078
26	-.254	-.482	-.393	-.146	*000.000	-.457	.231
27	-.573	-.510	-.526	-.124	-.329	-.326	-.130
28	-.361	-.348	-.245	-.132	-.136	-.186	-.040
29	-.084	.081	.174	-.086	.154	.128	.150
30	.904	.973	.568	.319	.452	.343	.405
31	.425	.554	.432	.275	.488	.468	.509
32	.164	.294	.314	.343	.466	.344	.437
33	.009	.222	.200	.297	.309	.222	.007

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.063	1.114	.519	.707	1.106	1.087	1.019
2	.468	.377	-.147	.488	.806	.850	.785
3	.059	-.055	-.471	.329	.584	.671	.555
4	-.391	-.543	-.850	.002	.152	.265	.194
5	-.713	-1.023	-1.323	-.418	-.303	-.216	-.237
6	*000.000	*000.000	*000.000	-.205	-.084	-.116	-.184
7	*000.000	*000.000	*000.000	-.888	-.735	-.608	-.617
8	*000.000	*000.000	*000.000	-1.806	-1.696	-1.489	-1.487
9	*000.000	*000.000	*000.000	-3.018	-3.114	-2.742	-2.501
10	-.919	-1.281	-1.661	-3.075	-2.452	-2.217	-2.174
11	-.963	-1.341	*000.000	-1.575	-1.805	-1.583	-1.496
12	-1.497	-1.005	-.941	-.760	-1.228	-1.101	-1.024
13	-.618	-.826	-.721	-.701	-.846	-.804	-.798
14	-.655	-.646	-.596	-.582	-.704	-.681	-.663
15	-.403	-1.079	.175	.334	.317	.218	-.440
16	-.059	-.035	.125	.266	.199	.123	-.151
17	.014	.024	.130	.217	.162	.170	-.108
18	-.004	-.006	.033	.106	.047	-.040	-.144
19	-.190	-.229	-.150	-.143	-.284	-.008	-.217
20	-.904	-.831	-.607	-.646	-.787	-.802	-.724
21	-1.396	-1.198	-.957	-.811	-.904	-.862	-.836
22	-1.498	-1.165	-.841	-.742	-.813	-.803	-.792
23	-1.136	-.483	-.124	-.192	-.215	-.326	-.467
24	-.554	-.039	-.004	.054	.032	-.008	-.164
25	.909	1.058	.695	.387	.699	.557	.501
26	.320	.356	.520	-.122	*000.000	-.057	.233
27	-.170	-.085	.023	-.102	-.303	-.070	.096
28	-.192	-.111	.059	.425	.195	.215	.339
29	-.078	.133	.235	.364	.387	.321	.238
30	.919	1.044	.685	.839	.858	.858	.692
31	.446	.594	.456	.671	.657	.570	.578
32	.191	.374	.368	.530	.487	.380	.411
33	-.012	.268	.277	.371	.325	.283	-.049

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.676	.648	-.427	.490	.837	.864	.744
2	.155	-.442	-1.322	-.212	.189	.315	.203
3	-.582	-.995	-1.826	-.621	-.330	-.028	-.176
4	-.987	-1.493	-2.039	-.699	-.520	-.428	-.465
5	-1.165	-1.693	-2.017	-.974	-.755	-.646	-.621
6	*000.000	*000.000	*000.000	-.142	-.088	-.038	-.176
7	*000.000	*000.000	*000.000	-1.598	-1.295	-1.173	-1.127
8	*000.000	*000.000	*000.000	-2.407	-2.299	-2.143	-2.087
9	*000.000	*000.000	*000.000	-3.452	-3.575	-3.241	-3.109
10	-1.209	-1.738	-2.094	-3.687	-2.905	-2.598	-2.639
11	-1.125	-1.596	*000.000	-1.775	-1.992	-1.781	-1.747
12	-1.514	-.996	-.704	-1.127	-1.034	-1.016	-1.015
13	-.736	-.866	-.783	-.746	-.819	-.833	-.914
14	-.868	-.779	-.716	-.660	-.732	-.740	-.669
15	-.396	-1.226	.242	.386	.238	.282	-.589
16	-.199	.040	.257	.434	.272	.274	-.314
17	-.189	.033	.198	.315	.185	.247	-.080
18	-.196	.005	.141	.207	.090	.047	-.070
19	-.429	-.326	-.186	-.164	-.333	.014	-.308
20	-1.192	-.942	-.739	-.780	-.840	-.862	-.740
21	-1.646	-1.269	-1.031	-.839	-.865	-.763	-.759
22	-1.649	-1.210	-.988	-.805	-.741	-.691	-.794
23	-1.668	-.565	-.310	-.303	-.274	-.355	-.532
24	-.713	-.003	.011	.011	.005	-.067	-.178
25	1.101	1.250	.492	.704	.956	.898	.860
26	.709	.912	.730	-.269	*000.000	.043	.181
27	.097	.303	.427	.488	-.004	.112	.346
28	-.067	.107	.317	.647	.770	.760	.446
29	-.022	.265	.391	.510	.492	.482	.358
30	.920	1.079	.718	1.016	.991	.880	.934
31	.389	.609	.522	.833	.635	.618	.613
32	.188	.452	.492	.592	.544	.476	.556
33	-.024	.319	.339	.439	.362	.288	.013

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.224	-.179	-1.769	-.206	.338	.472	.349
2	-.476	-1.449	-2.635	-1.124	-.717	-.523	-.475
3	-1.383	-2.075	-3.058	-1.761	-1.299	-.805	-.790
4	-1.705	-2.594	-3.334	-1.864	-1.423	-1.192	-1.156
5	-1.760	-2.560	-2.870	-1.988	-1.596	-1.507	-1.489
6	*000.000	*000.000	*000.000	-.228	-.023	-.112	-.096
7	*000.000	*000.000	*000.000	-2.141	-1.714	-1.714	-1.611
8	*000.000	*000.000	*000.000	-3.432	-3.139	-2.958	-2.887
9	*000.000	*000.000	*000.000	-4.158	-4.214	-3.954	-3.810
10	-1.435	-2.039	-2.386	-3.988	-3.187	-3.051	-2.931
11	-1.190	-1.695	*000.000	-1.793	-2.036	-1.933	-1.810
12	-1.721	-1.165	-1.057	-.784	-1.178	-1.194	-1.115
13	-.907	-.924	-.830	-.744	-.787	-.892	-.844
14	-1.148	-.930	-.765	-.703	-.730	-.821	-.769
15	-.435	-1.162	.334	.475	.318	.295	-.482
16	-.488	.090	.322	.413	.329	.232	-.222
17	-.490	.053	.261	.346	.256	.216	-.123
18	-.532	.019	.181	.235	.141	.023	-.125
19	-.617	-.343	-.189	-.183	-.236	-.012	-.331
20	-1.624	-1.151	-.856	-.929	-.766	-.929	-.833
21	-2.202	-1.445	-1.191	-.934	-.802	-.856	-.763
22	-2.629	-1.421	-1.196	-.827	-.634	-.795	-.757
23	-2.088	-.667	-.359	-.285	-.210	-.394	-.453
24	-.926	.008	.051	.027	.007	-.081	-.071
25	1.185	1.237	-.017	.806	1.041	.999	.897
26	.955	1.191	.833	.017	*000.000	-.337	.161
27	.393	.639	.745	.973	.672	.833	.688
28	.141	.332	.497	.750	.788	.671	.560
29	-.031	.357	.487	.579	.581	.486	.498
30	.933	1.166	1.004	1.039	1.030	.934	1.025
31	.421	.748	.644	.773	.730	.631	.702
32	.214	.537	.584	.638	.601	.464	.584
33	.014	.390	.442	.455	.408	.305	.120

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.403	-1.004	-2.923	-1.350	-.869	-.161	-.570
2	-1.614	-2.638	-4.084	-2.712	-1.925	-1.149	-1.323
3	-1.973	-3.092	-4.243	-3.046	-2.572	-1.594	-1.628
4	-2.230	-3.269	-4.023	-2.998	-2.489	-1.994	-1.975
5	-2.132	-3.142	-3.494	-2.643	-2.265	-1.990	-2.018
6	*000.000	*000.000	*000.000	-.157	-.022	-.112	-.256
7	*000.000	*000.000	*000.000	-2.804	-2.419	-2.233	-2.284
8	*000.000	*000.000	*000.000	-4.226	-4.064	-3.731	-3.717
9	*000.000	*000.000	*000.000	-4.860	-4.956	-4.470	-4.366
10	-1.617	-2.304	-2.622	-4.451	-3.495	-3.234	-3.198
11	-1.417	-1.946	*000.000	-1.992	-2.289	-2.091	-2.111
12	-1.996	-1.315	-1.229	-.917	-1.288	-1.346	-1.329
13	-1.151	-1.038	-.881	-.837	-.850	-.894	-.950
14	-1.515	-1.037	-.835	-.842	-.792	-.851	-.922
15	-.661	-1.296	.433	.554	.351	.369	-.857
16	-.822	.117	.351	.404	.293	.260	-.334
17	-.923	.042	.297	.318	.247	.273	-.272
18	-.759	.003	.224	.190	.123	.029	-.283
19	-.964	-.460	-.253	-.259	-.300	.021	-.498
20	-2.165	-1.348	-1.044	-1.037	-.917	-.988	-.793
21	-2.885	-1.645	-1.339	-1.047	-.872	-.915	-.815
22	-3.435	-1.668	-1.340	-.975	-.675	-.888	-.839
23	-2.658	-.812	-.544	-.397	-.333	-.439	-.553
24	-1.160	-.031	.053	-.033	-.061	-.097	-.195
25	.979	.843	-.931	.459	.791	1.035	.563
26	1.111	1.334	.799	.462	*000.000	.009	.219
27	.675	1.030	.993	1.122	1.046	1.069	.846
28	.194	.520	.626	.814	.837	.755	.608
29	0.	.424	.504	.599	.608	.557	.480
30	.883	1.310	1.209	1.114	1.047	1.042	1.063
31	.452	.893	.868	.876	.794	.769	.747
32	.195	.635	.694	.828	.613	.572	.596
33	-.040	.398	.454	.427	.358	.332	.031

Table 12. - Concluded.

(d) $C_{T,s} = 0.30$, $q_s = 19.50$

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.198	-2.355	-4.523	-2.738	-1.979	-.927	-1.555
2	-2.561	-4.196	-5.650	-4.197	-3.118	-2.056	-2.281
3	-2.842	-4.527	-5.752	-4.549	-3.789	-2.396	-2.430
4	-3.235	-4.899	-5.838	-4.628	-3.699	-2.884	-2.844
5	-2.730	-4.018	-4.273	-3.477	-2.948	-2.435	-2.319
6	*000.000	*000.000	*000.000	-.221	-.087	-.136	-.294
7	*000.000	*000.000	*000.000	-3.122	-2.573	-2.115	-2.284
8	*000.000	*000.000	*000.000	-4.541	-4.194	-3.556	-3.650
9	*000.000	*000.000	*000.000	-5.382	-5.454	-4.690	-4.521
10	-1.809	-2.693	-2.967	-4.913	-3.696	-3.238	-3.121
11	-1.643	-2.263	*000.000	-2.200	-2.444	-2.078	-2.034
12	-2.145	-1.496	-1.285	-.982	-1.401	-1.397	-1.325
13	-1.484	-1.246	-.941	-.965	-.996	-.970	-.988
14	-1.742	-1.047	-.851	-.825	-.824	-.795	-.775
15	-.439	-1.168	.398	.553	.367	.364	-.640
16	-1.108	.102	.366	.395	.291	.239	-.539
17	-1.201	.005	.326	.275	.195	.221	-.477
18	-1.072	-.075	.162	.140	.081	.058	-.378
19	-1.242	-.513	-.309	-.266	-.340	.052	-.420
20	-2.492	-1.422	-1.125	-1.142	-.982	-1.043	-.944
21	-3.578	-1.818	-1.404	-1.218	-1.146	-1.241	-1.069
22	-4.088	-1.818	-1.304	-1.059	-.752	-.997	-.839
23	-3.065	-.998	-.627	-.529	-.432	-.632	-.723
24	-1.382	-.060	.068	.090	-.131	.157	-.338
25	.632	.210	-1.496	-.008	.343	.740	.222
26	1.301	1.433	.984	.673	*000.000	.333	.157
27	.808	1.103	1.121	1.080	.889	.954	.677
28	.256	.623	.790	.875	.850	.697	.548
29	.043	.517	.644	.685	.676	.597	.559
30	.788	1.228	1.253	1.043	1.049	.951	.762
31	.375	.905	.931	.855	.822	.742	.708
32	.232	.625	.760	.808	.624	.525	.576
33	.040	.420	.545	.510	.426	.374	.083

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.094	-3.745	-5.814	-4.056	-3.155	-1.503	-2.361
2	-3.516	-5.475	-7.160	-5.629	-4.438	-2.812	-3.149
3	-3.720	-5.624	-6.739	-5.531	-4.519	-3.121	-3.244
4	-3.837	-5.587	-6.477	-5.270	-4.264	-3.081	-2.982
5	-3.532	-5.033	-5.309	-4.679	-3.907	-3.067	-2.913
6	*000.000	*000.000	*000.000	-.309	-.268	-.208	-.394
7	*000.000	*000.000	*000.000	-3.525	-2.930	-2.339	-2.500
8	*000.000	*000.000	*000.000	-5.015	-4.580	-3.699	-3.756
9	*000.000	*000.000	*000.000	-5.511	-5.444	-4.203	-3.990
10	-2.252	-3.102	-3.276	-5.125	-3.885	-2.940	-2.793
11	-1.656	-2.180	*000.000	-2.066	-2.214	-1.575	-1.517
12	-1.960	-1.398	-1.154	-.882	-1.250	-1.043	-1.007
13	-1.655	-1.280	-.941	-1.015	-.989	-.925	-.898
14	-2.277	-1.309	-.954	-.945	-.957	-.902	-.868
15	-1.170	-1.279	.505	.602	.391	.406	-.402
16	-1.476	.093	.367	.407	.253	.307	-.291
17	-1.614	-.015	.347	.313	.194	.314	-.401
18	-1.548	-.121	.184	.197	.061	.092	-.307
19	-1.625	-.574	-.347	-.256	-.403	.143	-.433
20	-2.747	-1.485	-1.118	-1.116	-1.082	-1.020	-.865
21	-4.216	-1.971	-1.401	-1.270	-1.183	-1.201	-.953
22	-4.568	-1.855	-1.256	-1.071	-.981	-1.138	-.856
23	-3.142	-.990	-.648	-.576	-.491	-.701	-.899
24	-1.640	-.136	-.028	-.075	-.119	-.177	-.316
25	.155	-.524	-2.171	-.429	-.132	.528	-.330
26	1.169	1.261	.960	.785	*000.000	.582	.098
27	.891	1.252	1.288	1.084	.825	.903	.651
28	.333	.793	.942	1.008	.918	.671	.659
29	-.077	.562	.723	.980	.659	.615	.598
30	.627	1.268	1.288	1.115	.996	.967	.707
31	.358	.889	.943	.825	.762	.710	.731
32	.085	.648	.811	.737	.608	.537	.515
33	-.002	.464	.623	.536	.429	.376	.071

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.546	-4.084	-5.677	-3.604	-2.931	-1.798	-2.526
2	-3.548	-5.211	-6.256	-4.943	-3.973	-3.133	-3.247
3	-3.952	-5.599	-6.148	-4.749	-3.982	-3.301	-3.340
4	-4.171	-5.736	-6.014	-4.898	-3.862	-3.328	-3.296
5	-3.431	-4.747	-4.619	-3.534	-3.165	-2.836	-2.626
6	*000.000	*000.000	*000.000	-.025	-.051	-.137	-.380
7	*000.000	*000.000	*000.000	-1.993	-2.216	-2.105	-2.180
8	*000.000	*000.000	*000.000	-2.784	-3.367	-3.327	-3.339
9	*000.000	*000.000	*000.000	-2.285	-3.797	-3.719	-3.516
10	-2.004	-2.624	-2.370	-.708	-1.891	-2.411	-2.316
11	-1.627	-2.111	*000.000	-1.312	-1.273	-1.521	-1.402
12	-1.965	-1.513	-1.207	-.895	-1.497	-.963	-.903
13	-1.922	-1.315	-.962	-1.015	-1.259	-.827	-.802
14	-2.549	-1.299	-.986	-.961	-.995	-.851	-.850
15	-1.257	-1.187	.481	.615	.351	.425	-.257
16	-1.762	.083	.384	.410	.276	.313	-.101
17	-1.659	-.040	.271	.275	.220	.260	-.114
18	-1.719	-.187	.110	.122	.115	.041	-.172
19	-1.854	-.642	-.413	-.253	-.320	.088	-.440
20	-3.506	-1.581	-1.238	-1.156	-1.096	-.985	-.926
21	-4.619	-1.923	-1.471	-.937	-.693	-1.072	-.963
22	-5.018	-1.914	-1.360	-.956	-.585	-1.085	-1.013
23	-3.304	-.968	-.821	-.481	-.398	-.627	-.850
24	-1.788	-.203	-.100	-.255	-.280	-.297	-.318
25	-.311	-1.401	-3.234	-1.518	-.715	-.863	-.980
26	1.158	1.176	.795	.787	*000.000	.648	.058
27	.953	1.326	1.330	1.093	.814	.720	.655
28	.397	.863	.995	.980	.871	.668	.634
29	-.106	.593	.762	.996	.678	.606	.614
30	.579	1.275	1.314	1.132	1.041	.939	.851
31	.263	.957	1.029	.911	.763	.657	.635
32	.147	.639	.734	.725	.561	.455	.447
33	.061	.375	.421	.361	.283	.306	.097

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.447	-5.778	-7.669	-5.205	-4.309	-3.717	-3.745
2	-4.906	-7.212	-8.150	-6.453	-5.262	-4.246	-4.218
3	-5.002	-7.168	-7.853	-6.238	-5.430	-4.113	-4.040
4	-4.638	-6.586	-6.832	-5.416	-4.659	-3.683	-3.713
5	-3.647	-4.994	-4.861	-3.718	-3.429	-2.937	-2.910
6	*000.000	*000.000	*000.000	-.100	-.254	-.420	-.401
7	*000.000	*000.000	*000.000	-2.023	-2.308	-1.898	-2.018
8	*000.000	*000.000	*000.000	-2.982	-3.737	-3.013	-3.117
9	*000.000	*000.000	*000.000	-2.845	-4.597	-3.989	-4.015
10	-2.512	-3.273	-2.900	-1.124	-2.447	-2.504	-2.501
11	-1.745	-2.189	*000.000	-.887	-1.053	-1.282	-1.236
12	-1.536	-1.386	-1.088	-.791	-1.091	-1.010	-.974
13	-1.661	-.978	-.800	-.801	-.946	-.791	-.746
14	-2.435	-1.109	-.863	-.960	-1.151	-.748	-.718
15	-1.213	-1.264	.510	.522	.251	.378	-.323
16	-1.522	.047	.406	.384	.174	.268	-.154
17	-1.531	-.044	.265	.295	.069	.235	-.041
18	-1.430	-.129	.116	.139	.035	.043	-.110
19	-1.668	-.569	-.408	-.314	-.694	.085	-.306
20	-2.788	-1.273	-1.042	-1.076	-1.261	-.811	-.794
21	-3.747	-1.464	-1.261	-1.145	-.889	-.974	-.930
22	-3.921	-1.399	-.850	-.899	-.791	-.855	-.793
23	-2.247	-.985	-.723	-.716	-.723	-.648	-.715
24	-.844	-.561	-.480	-.568	-.701	-.334	-.319
25	-.709	-1.963	-3.688	-1.800	-1.097	-1.576	-1.574
26	1.169	1.154	.761	.928	*000.000	.536	.015
27	.914	1.274	1.242	.817	.716	.647	.615
28	.424	.924	1.034	1.040	.875	.725	.673
29	-.026	.581	.723	.979	.595	.536	.564
30	.574	1.234	1.267	.987	.985	.899	.756
31	.322	.914	.958	.883	.707	.587	.618
32	.194	.632	.767	.719	.566	.537	.534
33	.088	.361	.477	.417	.308	.340	.212

Table 13.- Pressure coefficients for wing with propeller rotation down at tip, inboard slat and fences, $\delta_f = 40°$.

(a) $C_{T,S} = 0.90$, $q_s = 28.21$

$\alpha = 5°$

UBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.038	.811	-.056	.750	1.090	1.131	.671
2	1.040	1.167	.861	.812	1.033	1.073	.392
3	.878	1.184	1.049	.715	.926	1.008	.362
4	.543	.844	.994	.525	.567	.674	.191
5	.146	.478	.673	.598	.263	.233	-.033
6	*000.000	*000.000	*000.000	-.021	.040	-.010	-.045
7	*000.000	*000.000	*000.000	.301	.415	.482	.126
8	*000.000	*000.000	*000.000	-.536	-.630	-.481	-.330
9	*000.000	*000.000	*000.000	-1.395	-1.599	-1.206	-.841
10	-.118	-.138	-.204	-1.475	-1.323	-.849	-.604
11	-.304	-.556	*000.000	-1.013	-1.110	-.570	-.467
12	-.522	-.474	-.426	-.574	-.704	-.324	-.317
13	-.220	-.521	-.539	-.623	-.638	-.345	-.361
14	-.278	-.527	-.479	-.614	-.664	-.415	-.382
15	.007	-1.416	.378	.409	.345	.366	.083
16	.032	.096	.135	.126	.079	.119	.059
17	-.261	-.424	-.265	-.420	-.585	-.261	-.245
18	-.499	-.878	-.792	-1.037	-1.118	-.858	-.573
19	-.915	-1.354	-1.273	-1.503	-1.752	-.832	-.821
20	-.931	-1.382	-1.231	-1.527	-1.627	-1.274	-.912
21	-.842	-1.225	-.920	-1.295	-1.481	-1.056	-.809
22	-.617	-.727	-.411	-.820	-.890	-.788	-.617
23	-.261	-.096	-.099	-.069	-.122	-.213	-.359
24	-.271	-.123	-.038	-.100	-.101	-.122	-.067
25	-.072	-.634	-1.659	.469	.420	.343	.152
26	-.512	-1.433	-1.910	.066	*000.000	.102	.067
27	-.661	-.965	-1.167	.056	-.007	.210	.052
28	-.212	-.357	-.157	.569	.034	.096	.136
29	-.062	.252	.330	.439	.515	.386	.360
30	.402	.508	.555	.841	.783	.660	.158
31	.620	.905	.554	.949	.942	.741	.456
32	.292	.717	.581	.691	.754	.657	.634
33	.155	.457	.466	.535	.621	.564	.430

$\alpha = 10°$

UBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.030	.915	.190	.682	1.106	1.215	.570
2	.968	1.187	.876	.538	.921	1.001	.129
3	.824	1.127	1.049	.496	.771	.894	.081
4	.433	.772	.868	.326	.434	.502	-.072
5	.098	.383	.532	.152	.123	.133	-.152
6	*000.000	*000.000	*000.000	.183	.074	.144	.048
7	*000.000	*000.000	*000.000	-.131	.158	.424	.017
8	*000.000	*000.000	*000.000	-.811	-.822	-.614	-.559
9	*000.000	*000.000	*000.000	-1.614	-1.779	-1.399	-1.001
10	-.196	-.237	-.347	-2.029	-1.529	-1.024	-.723
11	-.328	-.623	*000.000	-1.005	-1.137	-.578	-.500
12	-.586	-.530	-.494	-.504	-.753	-.344	-.375
13	-.228	-.540	-.467	-.630	-.583	-.366	-.435
14	-.284	-.544	-.454	-.473	-.594	-.408	-.355
15	-.084	-1.420	.378	.397	.425	.466	.120
16	.040	.178	.167	.108	.178	.212	.095
17	-.270	-.455	-.292	-.485	-.598	-.229	-.241
18	-.583	-.913	-.729	-1.018	-1.130	-.905	-.649
19	-.918	-1.326	-1.248	-1.482	-1.536	-.947	-.864
20	-.956	-1.450	-1.227	-1.547	-1.553	-1.312	-.943
21	-.926	-1.221	-.981	-1.177	-1.495	-1.175	-.824
22	-.593	-.616	-.550	-.785	-.979	-.869	-.711
23	-.429	-.136	-.076	-.100	-.135	-.240	-.507
24	-.327	-.122	-.074	-.097	-.018	.017	-.089
25	.117	-.351	-1.297	.634	.641	.616	.282
26	-.316	-1.113	-1.473	-.048	*000.000	.156	.005
27	-.584	-.831	-.889	.328	.021	.163	-.025
28	-.139	-.291	-.063	.615	.421	.144	.181
29	-.062	.246	.329	.478	.540	.409	.364
30	.407	.547	.528	.819	.943	.835	.245
31	.604	1.084	.538	.906	1.036	.912	.468
32	.445	.752	.615	.695	.812	.787	.524
33	.200	.507	.431	.572	.640	.602	.402

$\alpha = 15°$

UBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.030	1.020	.506	.484	1.073	1.219	.382
2	.878	1.098	.897	.510	.740	.828	-.046
3	.777	1.016	.981	.139	.510	.725	.016
4	.388	.692	.880	.148	.277	.392	-.149
5	.028	.272	.395	-.151	-.050	-.017	-.291
6	*000.000	*000.000	*000.000	.228	.097	.126	-.032
7	*000.000	*000.000	*000.000	-.352	-.069	.231	-.051
8	*000.000	*000.000	*000.000	-1.125	-1.040	-.695	-.652
9	*000.000	*000.000	*000.000	-1.946	-2.090	-1.543	-1.190
10	-.269	-.338	-.401	-2.051	-1.567	-1.060	-.735
11	-.391	-.682	*000.000	-1.045	-1.182	-.647	-.546
12	-.682	-.553	-.521	-.494	-.778	-.397	-.417
13	-.284	-.568	-.497	-.607	-.597	-.398	-.399
14	-.376	-.587	-.509	-.425	-.636	-.425	-.410
15	0.	-1.502	.434	.395	.438	.546	.178
16	.014	.135	.162	.140	.156	.190	.069
17	-.335	-.525	-.335	-.467	-.550	-.265	-.337
18	-.635	-1.034	-.884	-1.036	-1.128	-1.044	-.742
19	-.972	-1.440	-1.300	-1.500	-1.527	-.989	-.858
20	-.994	-1.555	-1.258	-1.554	-1.593	-1.228	-.945
21	-.873	-1.330	-1.058	-1.270	-1.359	-1.130	-.927
22	-.729	-.764	-.626	-.869	-.896	-.897	-.739
23	-.525	-.165	-.057	-.058	-.119	-.193	-.555
24	-.486	-.158	-.121	-.054	-.047	-.048	-.084
25	.219	-.106	-.947	.726	.773	.652	.330
26	-.239	-.966	-1.098	-.007	*000.000	.099	-.052
27	-.555	-.731	-.706	.566	.029	.155	.012
28	-.174	-.262	-.039	.622	.775	.086	.132
29	-.141	.261	.406	.539	.575	.563	.311
30	.491	.639	.574	.901	.999	.964	.173
31	.656	1.070	.691	.964	1.088	1.056	.560
32	.428	.760	.709	.757	.835	.812	.832
33	.227	.474	.458	.615	.616	.614	.207

$\alpha = 20°$

UBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.132	1.236	.589	.408	1.070	1.140	.297
2	.845	1.105	.853	-.066	.579	.726	-.240
3	.668	.909	.878	-.315	.263	.556	-.210
4	.269	.550	.672	-.311	.010	.158	-.239
5	-.083	.086	.152	-.316	-.268	-.208	-.451
6	*000.000	*000.000	*000.000	.171	.122	-.072	-.055
7	*000.000	*000.000	*000.000	-.593	-.421	-.157	-.238
8	*000.000	*000.000	*000.000	-1.308	-1.305	-.903	-.873
9	*000.000	*000.000	*000.000	-2.087	-2.223	-1.700	-1.242
10	-.332	-.398	-.467	-2.148	-1.648	-1.236	-.858
11	-.418	-.716	*000.000	-1.108	-1.214	-.727	-.573
12	-.733	-.589	-.595	-.450	-.774	-.460	-.397
13	-.324	-.588	-.629	-.603	-.581	-.438	-.403
14	-.424	-.622	-.602	-.417	-.643	-.494	-.374
15	-.132	-1.474	.294	.410	.405	.444	.169
16	.007	.143	.128	.152	.135	.153	.072
17	-.391	-.537	-.430	-.538	-.581	-.383	-.245
18	-.755	-1.017	-.862	-1.053	-1.125	-1.007	-.697
19	-1.066	-1.501	-1.383	-1.453	-1.519	-1.026	-.895
20	-1.022	-1.507	-1.395	-1.381	-1.491	-1.275	-1.044
21	-1.016	-1.398	-1.154	-1.202	-1.325	-1.163	-.860
22	-.917	-.841	-.683	-.804	-.922	-.926	-.748
23	-.688	-.183	-.144	-.125	-.120	-.288	-.569
24	-.487	-.121	-.179	-.016	-.055	-.034	-.022
25	.297	.180	-.428	.674	.843	.548	.424
26	-.172	-.575	-.948	.149	*000.000	.005	-.040
27	-.523	-.564	-.679	.779	-.067	-.032	.023
28	-.138	-.159	-.088	.713	.782	.180	.227
29	-.103	.296	.450	.715	.557	.508	.412
30	.565	.827	.617	.894	.918	.900	.204
31	.856	1.127	.748	.931	1.000	1.014	.644
32	.411	.755	.702	.777	.802	.781	.735
33	.202	.497	.476	.604	.590	.517	.329

$\alpha = 25°$

UBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.109	1.168	.721	.117	.907	1.074	-.083
2	.791	1.009	.886	-.375	.409	.724	-.525
3	.533	.781	.904	-.480	.131	.478	-.331
4	.175	.415	.592	-.607	-.150	-.156	-.702
5	-.182	-.053	.142	-.587	-.447	-.392	-.618
6	*000.000	*000.000	*000.000	-.149	.075	.018	-.007
7	*000.000	*000.000	*000.000	-.779	-.466	-.185	-.270
8	*000.000	*000.000	*000.000	-1.599	-1.489	-.922	-.800
9	*000.000	*000.000	*000.000	-2.225	-2.382	-1.697	-1.212
10	-.365	-.491	-.563	-2.325	-1.776	-1.194	-.804
11	-.449	-.777	*000.000	-1.202	-1.259	-.688	-.549
12	-.756	-.620	-.519	-.475	-.768	-.421	-.340
13	-.380	-.630	-.489	-.574	-.576	-.393	-.366
14	-.465	-.700	-.558	-.408	-.584	-.470	-.400
15	-.127	-1.420	.346	.452	.444	.507	.217
16	.059	.094	.144	.172	.174	.170	.056
17	-.389	-.606	-.278	-.465	-.534	-.316	-.260
18	-.835	-1.169	-.807	-.952	-1.002	-.992	-.687
19	-1.178	-1.617	-1.405	-1.416	-1.480	-.859	-.807
20	-1.273	-1.775	-1.480	-1.474	-1.522	-1.316	-1.076
21	-1.259	-1.608	-1.290	-1.145	-1.298	-1.154	-.948
22	-1.031	-1.040	-.761	-.773	-.846	-.899	-.774
23	-.835	-.208	-.158	-.176	-.164	-.258	-.526
24	-.466	-.105	-.031	.061	-.041	-.010	-.013
25	.457	.470	-.084	.768	.944	.718	.220
26	.024	-.272	-.489	.153	*000.000	-.001	-.120
27	-.461	-.382	-.320	.873	-.040	-.035	-.042
28	-.158	-.113	.125	.729	.792	.393	.255
29	-.135	.291	.498	.704	.544	.483	.408
30	.790	.857	.625	.940	.944	.946	.193
31	.761	1.152	.817	.925	.993	1.026	.574
32	.509	.790	.804	.807	.803	.823	.863
33	.201	.494	.602	.640	.590	.549	.245

$\alpha = 30°$

UBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.990	1.151	.711	-.026	.790	.925	-.409
2	.682	.855	.715	-.686	.211	.470	-.721
3	.384	.625	.696	-.787	-.119	.155	-.656
4	.085	.216	.326	-.945	-.398	-.201	-.817
5	-.286	-.252	-.067	-.846	-.591	-.501	-.711
6	*000.000	*000.000	*000.000	.115	.020	-.018	-.096
7	*000.000	*000.000	*000.000	-.907	-.593	-.340	-.401
8	*000.000	*000.000	*000.000	-1.687	-1.606	-.989	-.833
9	*000.000	*000.000	*000.000	-2.591	-2.651	-1.879	-1.313
10	-.458	-.611	-.836	-2.453	-1.863	-1.297	-.933
11	-.480	-.841	*000.000	-1.253	-1.274	-.728	-.626
12	-.872	-.680	-.843	-.534	-.793	-.461	-.398
13	-.475	-.670	-.750	-.539	-.546	-.448	-.404
14	-.529	-.701	-.688	-.415	-.600	-.495	-.380
15	-.055	-1.429	.204	.444	.397	.421	.101
16	.032	.027	.126	.159	.109	.110	.033
17	-.521	-.781	-.492	-.471	-.562	-.291	-.332
18	-.956	-1.281	-1.069	-.967	-.989	-.953	-.731
19	-1.363	-1.824	-1.555	-1.296	-1.508	-1.005	-.909
20	-1.484	-2.004	-1.688	-1.296	-1.620	-1.364	-1.078
21	-1.441	-1.781	-1.617	-1.006	-1.347	-1.200	-.986
22	-1.311	-1.308	-1.068	-.805	-1.025	-.870	-.760
23	-1.074	-.269	-.228	-.189	-.222	-.289	-.576
24	-.578	-.184	-.232	.027	-.029	-.103	-.040
25	.543	.608	.014	.665	.977	.862	-.035
26	.055	-.063	-.447	.145	*000.000	-.045	-.204
27	-.441	-.306	-.385	.896	.313	.085	.096
28	-.189	-.136	-.021	.716	.739	.447	.165
29	-.138	-.296	.383	.583	.553	.478	.383
30	.831	1.050	.597	.950	.932	.926	.114
31	.925	1.151	.829	1.012	.960	.997	.575
32	.488	.775	.617	.977	.792	.779	.796
33	.147	.507	.451	.579	.556	.494	.249

Table 13. - Continued

(a) $C_{T,S} = 0.90$, $q_S = 20.21$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.000	1.186	1.018	-.187	.707	.859	-.708
2	.604	.741	.823	-.911	-.021	.269	-.996
3	.312	.506	.605	-.880	-.308	-.018	-1.013
4	-.074	.055	.435	-1.040	-.600	-.397	-.988
5	-.367	-.367	-.046	-1.062	-.759	-.611	-.885
6	.000,000	.000,000	.000,000	.127	.102	-.026	-.098
7	.000,000	.000,000	.000,000	-1.089	-.725	-.344	-.576
8	.000,000	.000,000	.000,000	-1.997	-1.914	-1.185	-1.110
9	.000,000	.000,000	.000,000	-2.610	-2.661	-1.771	-1.343
10	-.535	-.704	-.766	-2.558	-1.927	-1.291	-.961
11	-.588	-.847	.000,000	-1.254	-1.326	-.765	-.707
12	-.845	-.734	-.655	-.569	-.747	-.522	-.500
13	-.593	-.757	-.763	-.609	-.572	-.474	-.443
14	-.604	-.716	-.548	-.608	-.519	-.442	-.416
15	-.068	-1.363	.265	.470	.420	.480	.088
16	.014	-.026	.040	.178	.168	.109	-.079
17	-.541	-.834	-.435	-.447	-.531	-.415	-.416
18	-1.122	-1.451	-1.017	-1.002	-1.026	-1.018	-.876
19	-1.643	-1.999	-1.585	-1.205	-1.469	-1.001	-.974
20	-1.689	-2.041	-1.693	-1.130	-1.461	-1.086	-.850
21	-1.727	-1.473	-1.530	-.994	-1.204	-1.131	-.997
22	-1.574	-1.359	-1.063	-.740	-1.002	-.876	-.885
23	-1.204	-.336	-.317	-.252	-.316	-.344	-.662
24	-.644	-.163	-.177	-.014	-.067	-.060	-.169
25	.665	.423	.341	.833	1.061	.928	-.266
26	.141	.160	.109	.201	.000,000	.012	-.204
27	-.387	-.181	.038	.958	.341	-.093	.086
28	-.187	-.063	.108	.741	.741	.554	.199
29	-.207	.321	.498	.750	.570	.447	.379
30	.688	1.047	.885	.896	.868	.831	-.001
31	.924	1.087	.884	.950	.928	1.018	.367
32	.466	.747	.663	.802	.785	.741	.720
33	.151	.508	.429	.615	.590	.521	.133

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.470	1.123	.742	-.332	.534	.736	-.976
2	.488	.584	.436	-1.137	-.159	.048	-1.120
3	.203	.290	.326	-1.277	-.500	-.351	-1.062
4	-.193	-.164	-.048	-1.456	-.877	-.871	-1.375
5	-.532	-.597	-.391	-1.184	-.905	-.749	-.807
6	.000,000	.000,000	.000,000	.110	.204	-.040	-.128
7	.000,000	.000,000	.000,000	-1.301	-.942	-.553	-.675
8	.000,000	.000,000	.000,000	-2.313	-2.170	-1.468	-1.284
9	.000,000	.000,000	.000,000	-2.638	-2.701	-1.734	-1.247
10	-.545	-.833	-1.067	-2.494	-2.048	-1.325	-.951
11	-.635	-1.028	.000,000	-1.170	-1.334	-.784	-.673
12	-1.007	-.807	-.825	-.554	-.737	-.547	-.509
13	-.662	-.805	-.749	-.569	-.593	-.441	-.357
14	-.833	-.874	-.870	-.607	-.648	-.464	-.386
15	-.131	-1.291	.147	.488	.394	.484	.053
16	-.077	-.100	-.021	.171	.131	.084	.001
17	-.715	-.998	-.693	-.482	-.540	-.293	-.347
18	-1.328	-1.566	-1.366	-1.000	-1.101	-1.027	-.700
19	-1.943	-2.210	-2.034	-1.271	-1.420	-.890	-.906
20	-2.050	-2.231	-1.825	-1.083	-1.457	-1.229	-.912
21	-1.969	-1.985	-1.685	-.940	-1.346	-.898	-.612
22	-1.913	-1.508	-1.288	-.693	-.972	-.743	-.686
23	-1.231	-.403	-.413	-.237	-.249	-.267	-.471
24	-.742	-.226	-.305	-.055	-.036	-.109	-.047
25	.747	.452	.581	.750	1.036	1.032	-.226
26	.232	.408	.346	.074	.000,000	-.045	-.133
27	-.317	-.002	.084	.968	.378	-.061	.193
28	-.158	-.002	.119	.719	.708	.395	.186
29	-.075	.293	.435	.701	.531	.400	.292
30	.804	1.136	.653	.988	.922	1.008	.190
31	.852	1.017	.878	.920	.881	.968	.425
32	.435	.748	.698	.845	.790	.791	.805
33	.096	.451	.420	.620	.536	.496	.273

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.914	1.030	.699	-.508	.387	.193	-1.163
2	.312	.384	.244	-1.395	-.403	-.366	-1.403
3	.032	.087	.141	-1.628	-.832	-.588	-1.335
4	-.304	-.327	-.254	-1.666	-1.054	-1.146	-1.258
5	-.584	-.720	-.564	-1.523	-1.120	-1.091	-1.004
6	.000,000	.000,000	.000,000	.040	.206	-.040	-.193
7	.000,000	.000,000	.000,000	-1.364	-1.001	-.600	-.826
8	.000,000	.000,000	.000,000	-2.155	-2.006	-1.338	-1.107
9	.000,000	.000,000	.000,000	-2.733	-2.938	-1.800	-1.171
10	-.626	-.854	-.930	-2.329	-1.949	-1.246	-.939
11	-.691	-1.067	.000,000	-1.150	-1.397	-.664	-.537
12	-1.080	-.824	-.748	-.534	-.821	-.536	-.484
13	-.803	-.864	-.773	-.636	-.637	-.413	-.303
14	-.944	-.895	-.728	-.601	-.629	-.392	-.358
15	-.189	-1.174	.338	.468	.392	.413	.093
16	-.181	.099	.030	.187	.159	.168	-.062
17	-.893	-1.010	-.538	-.524	-.592	-.396	-.356
18	-1.541	-1.597	-1.303	-.970	-1.095	-.795	-.549
19	-2.213	-2.284	-1.909	-1.213	-1.513	-.848	-.805
20	-2.364	-2.313	-1.881	-1.105	-1.393	-1.145	-.937
21	-2.407	-2.153	-1.670	-.993	-1.411	-.835	-.667
22	-2.131	-1.607	-1.140	-.758	-1.061	-.841	-.754
23	-1.314	-.438	-.249	-.299	-.179	-.239	-.320
24	-.777	-.256	-.111	-.018	-.012	-.125	-.155
25	.716	1.047	.882	.752	1.052	.962	-.537
26	.275	.410	.769	.168	.000,000	-.020	-.119
27	-.360	.034	.216	.971	.771	-.053	.237
28	-.166	.060	.225	.722	.711	.360	.125
29	-.196	.318	.500	.688	.503	.355	.256
30	.788	1.104	.822	.931	.871	.893	.222
31	.817	1.072	1.003	.921	.901	.997	.517
32	.351	.718	.745	.793	.731	.712	.716
33	.050	.468	.554	.618	.521	.450	.203

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.913	.953	.544	-.589	.277	.038	-1.247
2	.259	.199	-.008	-1.540	-.635	-.761	-1.542
3	.030	-.042	-.214	-1.628	-1.076	-1.055	-1.727
4	-.395	-.485	-.602	-1.855	-1.237	-1.169	-1.205
5	-.707	-.932	-.849	-1.710	-1.297	-1.148	-1.023
6	.000,000	.000,000	.000,000	.092	.100	-.094	-.350
7	.000,000	.000,000	.000,000	-1.383	-1.136	-.674	-.654
8	.000,000	.000,000	.000,000	-2.387	-2.389	-1.334	-1.212
9	.000,000	.000,000	.000,000	-2.972	-3.332	-2.016	-1.540
10	-.740	-.995	-1.191	-2.455	-2.117	-1.092	-.793
11	-.717	-1.108	.000,000	-1.069	-1.430	-.632	-.561
12	-1.130	-.896	-.818	-.542	-.895	-.479	-.430
13	-.918	-.933	-.783	-.617	-.647	-.397	-.359
14	-1.141	-1.014	-.844	-.659	-.680	-.340	-.310
15	-.258	-1.185	.241	.517	.376	.424	.012
16	-.271	-.128	.053	.156	.100	.231	.060
17	-1.040	-1.103	-.656	-.484	-.729	-.304	-.320
18	-1.747	-1.802	-1.424	-1.006	-1.093	-.742	-.455
19	-2.329	-2.343	-1.932	-1.183	-1.391	-.764	-.344
20	-2.592	-2.515	-1.982	-1.087	-1.473	-1.036	-.907
21	-2.612	-2.269	-1.770	-.990	-1.201	-.579	-.587
22	-2.323	-1.744	-1.243	-.797	-.885	-.630	-.493
23	-1.389	-.503	-.350	-.333	-.175	-.232	-.231
24	-.824	-.320	-.260	-.084	-.074	-.109	-.112
25	.819	1.115	.996	.716	1.019	.735	-.474
26	.312	.680	.788	.223	.000,000	-.086	-.148
27	-.337	.095	.217	.990	.724	.260	.147
28	-.177	.039	.174	.762	.691	.243	.207
29	-.196	.305	.495	.646	.500	.383	.223
30	.749	1.134	.850	.963	.861	.899	.105
31	.805	1.125	1.045	.975	.898	1.045	.337
32	.321	.809	.902	.876	.779	.789	.728
33	.049	.461	.569	.595	.479	.439	.116

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.791	.985	.677	-.641	.263	-.189	-1.394
2	.173	.123	-.122	-1.541	-.667	-1.110	-1.811
3	-.124	-.214	-.321	-1.816	-1.089	-1.146	-1.611
4	-.507	-.665	-.750	-1.916	-1.251	-1.327	-1.408
5	-.831	-.986	-.891	-1.884	-1.382	-1.376	-1.087
6	.000,000	.000,000	.000,000	.026	.098	-.196	-.339
7	.000,000	.000,000	.000,000	-1.569	-1.304	-.765	-.781
8	.000,000	.000,000	.000,000	-2.385	-2.376	-1.702	-1.596
9	.000,000	.000,000	.000,000	-2.818	-3.040	-1.645	-1.190
10	-.810	-1.090	-1.281	-2.556	-2.227	-1.128	-.778
11	-.792	-1.194	.000,000	-1.095	-1.387	-.656	-.534
12	-1.205	-.981	-.919	-.567	-.838	-.271	-.247
13	-1.053	-1.056	-.850	-.604	-.629	-.258	-.267
14	-1.301	-1.144	-.911	-.631	-.728	-.487	-.449
15	-.304	-1.260	.217	.470	.358	.427	.017
16	-.361	-.201	.028	.157	.108	.151	-.040
17	-1.248	-1.218	-.753	-.479	-.563	-.245	-.249
18	-2.047	-2.011	-1.472	-1.061	-1.004	-.529	-.409
19	-2.662	-2.590	-2.028	-1.197	-1.345	-.841	-.498
20	-3.174	-2.884	-2.261	-1.355	-1.362	-.875	-.639
21	-3.042	-2.590	-2.011	-1.123	-1.397	-.802	-.802
22	-2.440	-1.918	-1.453	-.831	-.777	-.387	-.518
23	-1.338	-.556	-.333	-.314	-.144	-.247	-.269
24	-.884	-.392	-.201	-.036	-.045	-.208	-.099
25	.681	1.133	.984	.695	1.020	-.262	-.724
26	.304	.785	.859	.142	.000,000	-.025	-.172
27	-.286	.160	.343	.978	.734	.155	.309
28	-.183	.015	.113	.735	.665	.168	.088
29	-.193	.269	.440	.625	.471	.328	.232
30	.711	1.161	1.033	1.042	.901	.864	.118
31	.728	1.088	1.038	1.018	.876	1.042	.340
32	.285	.776	.865	.834	.730	.659	.603
33	.046	.443	.583	.646	.520	.372	.116

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.744	.842	.395	-.667	.137	-.629	-1.918
2	-.021	.014	-.197	-1.719	-.678	-.614	-1.675
3	-.283	-.361	-.454	-1.666	-1.088	-1.019	-1.688
4	-.791	-.810	-.839	-2.000	-1.324	-1.488	-1.478
5	-.993	-1.185	-1.069	-1.719	-1.386	-1.065	-1.136
6	.000,000	.000,000	.000,000	.030	.130	-.050	-.245
7	.000,000	.000,000	.000,000	-1.560	-1.291	-.364	-.556
8	.000,000	.000,000	.000,000	-2.492	-2.421	-1.236	-1.176
9	.000,000	.000,000	.000,000	-2.928	-3.392	-.811	-1.035
10	-.912	-1.185	-1.402	-2.477	-2.176	-.900	-.758
11	-.973	-1.332	.000,000	-1.122	-1.468	-.699	-.631
12	-1.311	-1.052	-.950	-.619	-.863	-.445	-.480
13	-1.125	-1.070	-.878	-.561	-.563	-.245	-.360
14	-1.301	-1.119	-.887	-.610	-.624	-.124	-.310
15	-.427	-1.216	.204	.503	.393	.689	-.061
16	-.513	-.207	-.023	.178	.086	.249	-.090
17	-1.262	-1.264	-.749	-.583	-.559	-.001	-.178
18	-2.082	-1.988	-1.505	-.953	-.988	-.738	-.574
19	-2.879	-2.789	-2.251	-1.255	-1.022	-.415	-.359
20	-3.214	-2.988	-2.284	-1.210	-1.178	-.438	-.529
21	-2.997	-2.591	-1.944	-1.020	-.750	-.198	-.361
22	-2.586	-1.999	-1.489	-.849	-.757	-.285	-.510
23	-1.123	-.580	-.379	-.303	-.127	-.073	-.217
24	-1.005	-.375	-.262	-.068	-.072	-.121	-.175
25	.653	1.177	.843	.747	.956	-.128	-.626
26	.378	.814	.908	.109	.000,000	.079	-.226
27	-.361	.157	.321	1.011	.765	.192	.156
28	-.254	.019	.127	.753	.652	.170	.057
29	-.252	.292	.421	.618	.443	.505	.130
30	.692	1.151	1.036	1.033	.842	.948	-.026
31	.751	1.144	1.067	1.020	.875	1.258	.157
32	.305	.777	.839	1.010	.707	.794	.511
33	.049	.472	.559	.628	.555	.535	.168

Table 13.- Continued.

(a) $C_{T,S} = 0.90$, $q_s = 20.21$

$\alpha = 65°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.711	.747	.328	-.745	.049	-.480	-1.433
2	.033	-.108	-.451	-1.749	-.819	-.653	-1.408
3	-.301	-.476	-.688	-1.942	-1.240	-1.168	-1.393
4	-.685	-.845	-1.097	-1.850	-1.391	-1.211	-1.155
5	-1.077	-1.311	-1.226	-1.840	-1.475	-.984	-1.039
6	*000.000	*000.000	*000.000	.043	.053	-.085	-.080
7	*000.000	*000.000	*000.000	-1.434	-1.227	-.402	-.537
8	*000.000	*000.000	*000.000	-2.337	-2.330	-.569	-.617
9	*000.000	*000.000	*000.000	-2.759	-3.054	-.331	-.545
10	-.963	-1.147	-1.236	-2.298	-2.003	-.264	-.240
11	-.944	-1.240	*000.000	-.982	-1.241	-.425	-.633
12	-1.153	-1.031	-.869	-.519	-.637	-.270	-.320
13	-1.223	-1.067	-.798	-.472	-.341	-.078	-.073
14	-1.346	-1.151	-.885	-.561	-.477	-.149	-.153
15	-.447	-1.132	.184	.424	.341	.482	.011
16	-.499	-.186	-.004	.234	.155	.203	.009
17	-1.289	-1.246	-.777	-.464	-.512	-.095	-.219
18	-2.197	-2.108	-1.537	-.974	-.886	-.353	-.420
19	-2.721	-2.676	-2.193	-1.217	-1.044	-.417	-.312
20	-2.854	-2.795	-2.067	-1.027	-.798	-.299	-.389
21	-2.902	-2.718	-1.909	-.899	-.769	-.319	-.251
22	-2.246	-1.973	-1.448	-.729	-.470	-.330	-.199
23	-.878	-.536	-.395	-.266	-.158	-.201	-.091
24	-.877	-.331	-.173	-.056	-.049	-.072	-.140
25	.660	1.117	.744	.732	.936	-.431	-.719
26	.205	.886	.971	.109	*000.000	-.054	-.215
27	-.353	.103	.387	.901	.717	.107	.243
28	-.248	.064	.182	.698	.576	.107	.059
29	-.290	.265	.385	.605	.414	.206	.228
30	.580	1.067	1.010	.912	.733	.720	.166
31	.621	1.068	1.003	.958	.808	.839	.072
32	.222	.764	.760	.750	.654	.687	.543
33	-.021	.436	.525	.521	.442	.347	.224

$\alpha = 70°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.608	.666	.229	-.564	.197	-.702	-1.098
2	-.101	-.215	-.578	-1.810	-.857	-.804	-1.178
3	-.377	-.524	-.723	-1.927	-1.296	-.599	-1.141
4	-.817	-1.034	-1.150	-2.007	-1.526	-.852	-.804
5	-1.070	-1.297	-1.092	-1.645	-1.392	-.529	-.610
6	*000.000	*000.000	*000.000	-.005	.033	-.072	-.109
7	*000.000	*000.000	*000.000	-1.461	-1.212	-.247	-.404
8	*000.000	*000.000	*000.000	-2.493	-2.353	-.397	-.391
9	*000.000	*000.000	*000.000	-2.654	-2.835	-.222	-.328
10	-1.048	-1.211	-1.278	-2.166	-1.904	-.163	-.204
11	-1.047	-1.275	*000.000	-.902	-1.163	-.319	-.262
12	-1.168	-1.043	-.843	-.493	-.594	-.113	-.292
13	-1.182	-1.083	-.767	-.401	-.373	-.084	-.062
14	-1.364	-1.188	-.792	-.494	-.430	-.058	-.142
15	-.421	-1.147	.173	.404	.291	.414	.097
16	-.533	-.210	.004	.201	.100	.201	.096
17	-1.269	-1.308	-.805	-.474	-.534	-.064	-.176
18	-2.069	-2.044	-1.496	-.807	-.714	-.231	-.224
19	-2.713	-2.722	-2.045	-1.166	-.993	-.252	-.209
20	-2.899	-2.831	-2.048	-.929	-.746	-.170	-.218
21	-2.833	-2.621	-1.838	-.789	-.673	-.272	-.067
22	-2.266	-2.030	-1.424	-.578	-.485	-.215	-.223
23	-.852	-.552	-.438	-.296	-.196	-.243	-.144
24	-.855	-.310	-.182	-.019	-.038	-.108	-.083
25	.603	1.151	.974	.740	.951	-.368	-.507
26	.246	.876	.898	.015	*000.000	.064	-.094
27	-.464	.208	.408	.944	.739	.264	.278
28	-.341	.031	.173	.650	.528	.072	.051
29	-.348	.228	.391	.542	.344	.314	.268
30	.509	1.055	1.014	.910	.689	.677	.154
31	.596	1.035	.980	.800	.715	.778	.144
32	.202	.693	.769	.670	.583	.596	.341
33	-.079	.394	.518	.487	.403	.440	.232

$\alpha = 75°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.475	.627	.105	-.603	.033	-.524	-1.086
2	-.190	-.246	-.544	-1.551	-.877	-.791	-.987
3	-.519	-.616	-.766	-1.794	-1.309	-.634	-.682
4	-.878	-.997	-1.022	-1.738	-1.328	-.838	-.743
5	-1.143	-1.276	-1.134	-1.633	-1.416	-.371	-.213
6	*000.000	*000.000	*000.000	-.049	-.015	-.164	.085
7	*000.000	*000.000	*000.000	-1.374	-1.125	-.348	-.150
8	*000.000	*000.000	*000.000	-2.320	-2.224	-.302	-.373
9	*000.000	*000.000	*000.000	-2.660	-2.756	-.185	-.139
10	-1.176	-1.229	-1.187	-1.965	-1.695	-.195	-.222
11	-1.153	-1.317	*000.000	-.881	-.894	-.324	-.293
12	-1.151	-1.120	-.834	-.412	-.545	-.127	-.241
13	-1.213	-1.142	-.805	-.458	-.419	-.120	-.104
14	-1.351	-1.221	-.854	-.488	-.381	-.179	-.130
15	-.460	-1.216	.191	.387	.317	.366	.127
16	-.540	-.247	.038	.183	.163	.271	.076
17	-1.253	-1.279	-.701	-.388	-.379	-.030	-.080
18	-1.855	-1.890	-1.295	-.713	-.586	-.318	-.249
19	-2.644	-2.791	-2.060	-1.008	-.807	-.295	-.115
20	-2.912	-2.841	-1.960	-.893	-.761	-.312	-.209
21	-2.576	-2.562	-1.836	-.794	-.628	-.263	-.062
22	-2.053	-1.992	-1.448	-.687	-.461	-.249	-.163
23	-.805	-.584	-.472	-.322	-.264	-.253	-.026
24	-.720	-.243	-.074	-.022	-.013	-.135	-.068
25	.558	1.120	.834	.642	.875	-.420	-.337
26	.237	.857	.898	-.009	*000.000	-.092	-.072
27	-.442	.186	.414	.869	.795	.189	.193
28	-.267	-.006	.157	.609	.501	.066	.106
29	-.365	.223	.385	.535	.339	.195	.202
30	.484	1.038	.932	.865	.635	.515	.097
31	.550	1.028	1.022	.866	.755	.799	.099
32	.183	.713	.833	.628	.560	.521	.601
33	.014	.421	.569	.434	.293	.180	.176

$\alpha = 80°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.506	.661	.043	-.585	-.091	-.520	-.738
2	-.336	-.214	-.597	-1.700	-1.207	-.997	-1.019
3	-.579	-.588	-.723	-1.713	-1.327	-.834	-.860
4	-1.065	-1.032	-1.112	-1.819	-1.494	-.544	-.773
5	-1.351	-1.355	-1.156	-1.640	-1.471	-.399	-.498
6	*000.000	*000.000	*000.000	-.057	0.	-.141	-.091
7	*000.000	*000.000	*000.000	-1.325	-1.012	-.340	-.327
8	*000.000	*000.000	*000.000	-2.154	-1.938	-.309	-.638
9	*000.000	*000.000	*000.000	-2.399	-2.389	-.152	-.049
10	-1.232	-1.284	-1.331	-2.074	-1.832	-.280	-.137
11	-1.214	-1.393	*000.000	-.911	-.819	-.252	-.359
12	-1.076	-1.067	-.803	-.361	-.437	-.003	-.187
13	-1.109	-1.104	-.750	-.421	-.418	-.096	-.170
14	-1.322	-1.221	-.842	-.436	-.355	-.095	-.074
15	-.402	-1.233	.119	.334	.229	.375	-.122
16	-.375	-.214	.012	.140	.064	.155	.026
17	-1.120	-1.247	-.715	-.313	-.340	-.034	-.033
18	-1.629	-1.901	-1.484	-.759	-.583	-.296	-.211
19	-2.499	-2.628	-1.892	-.956	-.812	-.309	-.236
20	-2.693	-2.897	-2.098	-.844	-.822	-.240	-.397
21	-2.053	-2.417	-1.793	-.780	-.623	-.225	-.134
22	-1.833	-1.822	-1.392	-.580	-.513	-.240	-.303
23	-.771	-.579	-.510	-.283	-.138	-.128	-.112
24	-.587	-.176	-.060	.020	-.005	-.056	-.109
25	.639	1.123	.807	.698	.969	-.677	-.563
26	.182	.893	.896	-.031	*000.000	.057	-.157
27	-.455	.191	.377	.887	.816	.127	.144
28	-.327	-.024	.140	.650	.519	-.016	-.052
29	-.281	.244	.351	.494	.302	.173	.174
30	.456	1.077	.970	.904	.626	.530	-.156
31	.568	1.072	1.005	.830	.818	.750	-.092
32	.212	.750	.774	.574	.528	.572	.284
33	-.068	.381	.484	.422	.370	.289	.124

Table 13. - Continued.

(b) $C_{T,S} = 0.80$, $q_s = 20.02$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.093	1.027	.365	.672	1.140	1.124	.731
2	1.024	1.152	.761	.528	.976	1.041	.566
3	.841	1.030	.855	.461	.814	.941	.454
4	.547	.740	.711	.395	.584	.639	.221
5	.132	.270	.353	.185	.171	.275	-.006
6	*000.000	*000.000	*000.000	.087	.083	.102	.052
7	*000.000	*000.000	*000.000	.056	.062	.403	.186
8	*000.000	*000.000	*000.000	-.768	-.865	-.609	-.710
9	*000.000	*000.000	*000.000	-1.777	-1.976	-1.528	-1.264
10	-.253	-.278	-.362	-1.936	-1.572	-1.156	-.890
11	-.399	-.634	*000.000	-1.193	-1.199	-.783	-.700
12	-.664	-.573	-.575	-.518	-.844	-.459	-.487
13	-.301	-.575	-.595	-.694	-.683	-.452	-.446
14	-.325	-.550	-.515	-.624	-.682	-.455	-.433
15	-.015	-1.084	.391	.353	.384	.461	.065
16	.195	.131	.157	.093	.091	.119	.022
17	-.307	-.546	-.354	-.525	-.648	-.335	-.340
18	-.747	-.972	-.739	-1.002	-1.134	-1.021	-.706
19	-1.212	-1.398	-1.319	-1.544	-1.760	-1.059	-1.052
20	-1.259	-1.455	-1.302	-1.558	-1.651	-1.518	-1.183
21	-1.150	-1.158	-.971	-1.182	-1.487	-1.233	-1.012
22	-.847	-.647	-.587	-.744	-.947	-.940	-.806
23	-.413	-.121	-.135	-.181	-.182	-.184	-.359
24	-.382	-.112	-.175	-.215	-.155	-.158	-.157
25	.121	-.263	-.868	.425	.596	.476	.451
26	-.575	-1.041	-.992	-.013	*000.000	.077	-.107
27	-.673	-.769	-.616	.115	.229	.212	-.015
28	-.240	-.264	-.024	.649	.083	.124	.094
29	.046	.282	.289	.487	.604	.511	.357
30	.855	.769	.520	.804	.867	.730	.051
31	1.085	1.137	.501	.892	1.070	.889	.411
32	.581	.751	.600	.872	.861	.758	.668
33	.281	.495	.415	.563	.645	.606	.256

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.127	1.082	.564	.511	1.084	1.212	.743
2	.940	1.090	.794	.270	.867	.998	.482
3	.748	.908	.772	.135	.551	.805	.289
4	.353	.504	.417	.006	.269	.346	.021
5	-.038	.048	.129	-.080	-.112	.023	-.196
6	*000.000	*000.000	*000.000	.153	.051	.094	-.058
7	*000.000	*000.000	*000.000	-.435	-.265	-.029	-.135
8	*000.000	*000.000	*000.000	-1.140	-1.152	-.797	-.832
9	*000.000	*000.000	*000.000	-2.005	-2.148	-1.689	-1.456
10	-.331	-.430	-.512	-2.213	-1.663	-1.246	-1.126
11	-.492	-.783	*000.000	-1.306	-1.376	-.856	-.820
12	-.809	-.635	-.685	-.543	-.914	-.533	-.633
13	-.345	-.634	-.584	-.675	-.746	-.505	-.502
14	-.427	-.619	-.542	-.631	-.676	-.481	-.449
15	-.016	-1.086	.407	.376	.395	.508	.121
16	.179	.115	.137	.105	.151	.146	.032
17	-.400	-.588	-.350	-.488	-.708	-.374	-.385
18	-.847	-1.054	-.902	-1.094	-1.271	-1.132	-.801
19	-1.300	-1.586	-1.311	-1.563	-1.693	-1.112	-.991
20	-1.414	-1.609	-1.288	-1.533	-1.729	-1.488	-1.141
21	-1.274	-1.335	-1.121	-1.362	-1.480	-1.259	-1.085
22	-1.000	-.819	-.577	-.873	-.937	-.905	-.866
23	-.558	-.129	-.126	-.166	-.156	-.174	-.470
24	-.478	-.140	-.174	-.055	-.063	-.082	-.225
25	.345	.217	-.188	.649	.793	.712	.476
26	-.314	-.598	-.502	-.067	*000.000	.138	-.145
27	-.563	-.591	-.429	.423	.216	.170	-.103
28	-.202	-.160	.050	.652	.719	.210	.266
29	.079	.306	.376	.521	.602	.605	.391
30	.917	.742	.533	.946	1.023	1.065	.552
31	1.066	1.181	.628	.931	1.107	1.109	.618
32	.597	.757	.529	.797	.875	.889	.873
33	.297	.489	.364	.541	.616	.608	.133

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.212	1.236	.737	.142	1.004	1.108	.625
2	.793	.920	.743	-.220	.495	.671	.212
3	.618	.702	.675	-.379	.216	.472	.063
4	.164	.305	.326	-.525	-.202	.036	-.289
5	-.221	-.193	-.042	-.555	-.417	-.247	-.436
6	*000.000	*000.000	*000.000	.129	.037	.009	-.054
7	*000.000	*000.000	*000.000	-.764	-.592	-.339	-.348
8	*000.000	*000.000	*000.000	-1.503	-1.585	-1.250	-1.151
9	*000.000	*000.000	*000.000	-2.318	-2.609	-2.074	-1.801
10	-.439	-.589	-.643	-2.521	-2.049	-1.596	-1.338
11	-.556	-.866	*000.000	-1.314	-1.482	-1.047	-1.009
12	-.890	-.729	-.701	-.592	-1.023	-.663	-.645
13	-.411	-.709	-.564	-.657	-.792	-.547	-.588
14	-.564	-.712	-.601	-.646	-.755	-.548	-.505
15	-.002	-1.127	.476	.439	.423	.405	.051
16	.106	.028	.216	.166	.108	.101	.015
17	-.478	-.725	-.402	-.536	-.761	-.451	-.408
18	-1.050	-1.289	-.961	-1.125	-1.341	-1.226	-.866
19	-1.425	-1.637	-1.409	-1.483	-1.732	-1.141	-1.008
20	-1.586	-1.828	-1.451	-1.481	-1.729	-1.568	-1.214
21	-1.510	-1.506	-1.208	-1.212	-1.383	-1.294	-1.044
22	-1.213	-.994	-.642	-.813	-.968	-1.016	-.900
23	-.807	-.208	-.111	-.137	-.102	-.194	-.537
24	-.560	-.222	-.110	-.015	-.040	-.059	-.227
25	.608	.502	.215	.698	.956	.833	.569
26	-.045	-.186	-.048	.155	*000.000	.023	-.114
27	-.442	-.328	-.101	.754	.157	.083	-.045
28	-.163	-.098	.148	.748	.801	.584	.262
29	.079	.337	.458	.616	.604	.551	.382
30	.897	.965	.697	.994	.980	.952	.699
31	1.051	1.158	.770	1.035	1.060	1.107	.720
32	.608	.791	.691	.827	.849	.846	.827
33	.272	.499	.547	.661	.649	.612	.255

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.160	1.214	.757	-.176	.784	1.091	.449
2	.658	.757	.576	-.705	.132	.387	-.097
3	.422	.479	.478	-.751	-.215	.096	-.135
4	.026	.005	.084	-.896	-.529	-.326	-.426
5	-.361	-.404	-.273	-.942	-.730	-.597	-.590
6	*000.000	*000.000	*000.000	.150	.143	-.005	-.036
7	*000.000	*000.000	*000.000	-1.112	-.904	-.580	-.560
8	*000.000	*000.000	*000.000	-2.035	-2.001	-1.550	-1.340
9	*000.000	*000.000	*000.000	-2.622	-2.895	-2.356	-1.957
10	-.554	-.755	-.694	-2.565	-2.110	-1.607	-1.337
11	-.606	-.964	*000.000	-1.306	-1.548	-1.053	-.879
12	-1.009	-.760	-.817	-.600	-1.020	-.672	-.598
13	-.564	-.799	-.601	-.647	-.778	-.527	-.459
14	-.681	-.743	-.533	-.610	-.738	-.568	-.429
15	.028	-1.229	.487	.517	.414	.465	.110
16	.037	.002	.149	.176	.083	.073	-.002
17	-.594	-.784	-.362	-.512	-.717	-.465	-.320
18	-1.227	-1.418	-1.207	-1.118	-1.368	-1.167	-.725
19	-1.746	-1.940	-1.626	-1.249	-1.734	-1.157	-.925
20	-1.887	-2.076	-1.606	-1.189	-1.714	-1.452	-1.062
21	-1.819	-1.766	-1.429	-.965	-1.496	-1.285	-.983
22	-1.587	-1.199	-.917	-.705	-.982	-.931	-.811
23	-1.156	-.294	-.228	-.210	-.189	-.144	-.611
24	-.656	-.219	-.107	-.003	.032	-.073	-.110
25	.804	.855	.478	.703	1.053	.933	.178
26	.190	.184	.484	.198	*000.000	-.063	-.177
27	-.331	-.146	.127	.932	.376	.015	.136
28	-.152	-.009	.264	.925	.812	.726	.284
29	.041	.356	.484	.648	.614	.519	.374
30	.874	1.074	.778	.958	.949	.966	.159
31	.964	1.119	1.014	1.004	1.013	1.027	.628
32	.582	.809	.782	.891	.879	.875	.856
33	.240	.506	.524	.677	.641	.541	.280

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.103	1.135	.503	-.397	.585	.974	.006
2	.519	.530	.196	-1.129	-.248	.199	-.589
3	.251	.207	.042	-1.233	-.544	-.033	-.626
4	-.282	-.267	-.292	-1.257	-.781	-.441	-.781
5	-.618	-.796	-.722	-1.401	-1.005	-.753	-.905
6	*000.000	*000.000	*000.000	.173	.333	-.019	-.110
7	*000.000	*000.000	*000.000	-1.282	-.995	-.665	-.673
8	*000.000	*000.000	*000.000	-2.343	-2.280	-1.641	-1.380
9	*000.000	*000.000	*000.000	-2.879	-3.130	-2.331	-1.759
10	-.669	-.907	-1.131	-2.910	-2.312	-1.649	-1.345
11	-.684	-1.044	*000.000	-1.312	-1.566	-.939	-.812
12	-1.051	-.800	-.820	-.637	-.953	-.638	-.621
13	-.686	-.814	-.844	-.632	-.736	-.551	-.424
14	-.871	-.887	-.944	-.674	-.754	-.579	-.439
15	-.019	-1.149	.298	.455	.423	.420	.057
16	.093	-.055	.058	.154	.089	.151	.012
17	-.719	-.882	-.613	-.566	-.714	-.469	-.351
18	-1.455	-1.584	-1.349	-1.068	-1.283	-1.180	-.771
19	-1.965	-2.169	-2.104	-1.289	-1.725	-1.302	-1.055
20	-2.295	-2.299	-2.041	-1.138	-1.673	-1.374	-1.077
21	-2.427	-2.171	-1.911	-1.071	-1.536	-1.346	-1.139
22	-1.920	-1.358	-1.132	-.721	-.968	-.959	-.885
23	-1.285	-.322	-.325	-.277	-.196	-.258	-.590
24	-.747	-.238	-.314	-.042	.060	-.012	-.069
25	.884	1.016	.647	.676	1.008	.992	.278
26	.362	.550	.504	.189	*000.000	-.050	-.204
27	-.214	.041	.151	.948	.721	-.015	.104
28	-.141	.087	.166	.856	.861	.755	.337
29	.025	.383	.363	.644	.623	.512	.392
30	.849	1.186	.823	.981	1.019	1.027	.043
31	1.006	1.224	1.047	1.066	1.092	1.119	.567
32	.552	.814	.728	.942	.856	.811	.763
33	.243	.573	.511	.854	.650	.556	.159

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.974	.965	.514	-.615	.339	.819	-.701
2	.264	.115	-.103	-1.657	-.504	-.099	-1.083
3	-.050	-.214	-.339	-1.863	-1.007	-.393	-1.170
4	-.506	-.656	-.525	-1.767	-1.219	-.833	-1.352
5	-.751	-1.003	-.789	-1.542	-1.189	-.990	-1.134
6	*000.000	*000.000	*000.000	.133	.311	-.056	-.150
7	*000.000	*000.000	*000.000	-1.520	-1.263	-.793	-.886
8	*000.000	*000.000	*000.000	-2.569	-2.528	-1.788	-1.490
9	*000.000	*000.000	*000.000	-3.028	-3.247	-2.269	-1.614
10	-.783	-1.070	-1.191	-2.944	-2.405	-1.768	-1.288
11	-.760	-1.167	*000.000	-1.258	-1.590	-.948	-.811
12	-1.152	-.853	-.760	-.599	-.921	-.603	-.486
13	-.832	-.905	-.801	-.704	-.763	-.634	-.549
14	-1.106	-1.028	-.789	-.706	-.778	-.574	-.454
15	-.120	-1.168	.389	.532	.463	.428	.022
16	-.203	-.086	.133	.178	.117	.029	-.009
17	-.954	-1.026	-.644	-.582	-.647	-.588	-.435
18	-1.659	-1.651	-1.328	-1.033	-1.250	-1.281	-.814
19	-2.340	-2.289	-1.974	-1.305	-1.680	-1.146	-1.034
20	-2.824	-2.548	-2.117	-1.230	-1.803	-1.392	-1.109
21	-2.619	-2.117	-1.742	-1.034	-1.592	-1.233	-1.043
22	-2.388	-1.601	-1.203	-.795	-1.047	-1.023	-.783
23	-1.448	-.418	-.323	-.318	-.224	-.330	-.584
24	-.944	-.301	-.198	-.054	.029	-.042	-.128
25	1.017	1.194	.916	.730	1.093	1.100	-.187
26	.465	.792	.942	.297	*000.000	-.119	-.178
27	-.111	.245	.447	.994	.718	-.038	.148
28	-.112	.176	.369	.838	.816	.645	.280
29	-.021	.406	.585	.703	.633	.469	.289
30	.785	1.217	1.001	1.070	1.033	.991	.041
31	.876	1.132	1.087	1.030	1.004	1.007	.439
32	.479	.810	.807	.875	.848	.783	.685
33	.212	.564	.613	.725	.649	.519	.202

Table 13. - Continued.

(b) $C_{T,S} = 0.80$, $q_s = 20.02$

$\alpha = 35°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.887	.730	.257	-.933	.028	.517	-1.064
2	.057	-.174	-.523	-2.145	-.966	-.280	-1.360
3	-.180	-.479	-.748	-2.120	-1.291	-.610	-1.398
4	-.635	-.960	-.953	-2.093	-1.463	-1.140	-1.488
5	-.985	-1.352	-1.191	-2.038	-1.609	-1.223	-1.341
6	*000.000	*000.000	*000.000	.087	.190	-.025	-.208
7	*000.000	*000.000	*000.000	-1.714	-1.409	-.845	-1.019
8	*000.000	*000.000	*000.000	-2.885	-2.711	-1.799	-1.510
9	*000.000	*000.000	*000.000	-3.378	-3.569	-2.351	-1.608
10	-.906	-1.244	-1.423	-3.049	-2.446	-1.557	-1.112
11	-.893	-1.308	*000.000	-1.304	-1.678	-.915	-.786
12	-1.284	-.983	-.954	-.679	-.895	-.534	-.495
13	-.979	-1.021	-.978	-.728	-.756	-.610	-.551
14	-1.214	-1.066	-.908	-.723	-.737	-.592	-.522
15	-.286	-1.205	.374	.545	.494	.447	-.104
16	-.402	-.118	.071	.168	.146	.088	-.134
17	-1.145	-1.124	-.756	-.559	-.638	-.527	-.486
18	-2.060	-1.946	-1.576	-1.197	-1.300	-1.162	-.936
19	-2.823	-2.589	-2.298	-1.415	-1.810	-1.140	-1.108
20	-3.204	-2.751	-2.308	-1.340	-1.817	-1.579	-1.287
21	-3.232	-2.499	-2.062	-1.110	-1.582	-1.233	-.995
22	-2.665	-1.717	-1.457	-.891	-1.218	-1.173	-1.052
23	-1.405	-.463	-.311	-.347	-.255	-.408	-.552
24	-1.124	-.302	-.238	-.063	-.019	-.191	-.121
25	1.107	1.256	.941	.603	1.094	1.079	-.571
26	.576	.979	1.002	.364	*000.000	-.099	-.225
27	-.075	.365	.515	1.047	1.038	.290	.130
28	-.134	.205	.379	.935	.843	.607	.237
29	-.055	.418	.531	.708	.639	.473	.212
30	.773	1.210	1.109	1.059	.993	.999	.146
31	.859	1.203	1.131	1.100	1.071	1.139	.470
32	.436	.799	.820	.865	.824	.778	.581
33	.180	.559	.607	.737	.632	.515	.143

$\alpha = 40°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.733	.458	-.111	-1.400	-.234	.265	-1.798
2	-.145	-.539	-.934	-2.444	-1.307	-.770	-1.909
3	-.403	-.929	-1.155	-2.573	-1.695	-1.156	-1.750
4	-.881	-1.286	-1.433	-2.542	-1.776	-1.441	-1.462
5	-1.248	-1.670	-1.532	-2.408	-1.916	-1.407	-1.440
6	*000.000	*000.000	*000.000	.068	.135	-.061	-.354
7	*000.000	*000.000	*000.000	-1.943	-1.578	-.861	-1.197
8	*000.000	*000.000	*000.000	-3.123	-2.922	-1.930	-1.584
9	*000.000	*000.000	*000.000	-3.433	-3.638	-2.459	-1.666
10	-.974	-1.369	-1.486	-3.031	-2.466	-1.518	-1.147
11	-.960	-1.381	*000.000	-1.288	-1.611	-.797	-.786
12	-1.344	-1.121	-.998	-.718	-.975	-.639	-.679
13	-1.126	-1.121	-.919	-.769	-.781	-.420	-.596
14	-1.436	-1.189	-.922	-.716	-.676	-.693	-.588
15	-.364	-1.187	.352	.535	.444	.467	-.116
16	-.520	-.191	.051	.135	.074	.161	-.158
17	-1.499	-1.406	-.858	-.744	-.813	-.640	-.565
18	-2.266	-2.123	-1.889	-1.302	-1.374	-1.053	-.869
19	-3.209	-2.868	-2.350	-1.568	-1.735	-1.205	-.971
20	-3.550	-2.923	-2.359	-1.403	-1.824	-1.301	-1.194
21	-3.506	-2.713	-2.157	-1.153	-1.570	-1.113	-1.065
22	-2.932	-2.000	-1.506	-.830	-1.158	-.858	-.895
23	-1.551	-.590	-.373	-.398	-.331	-.413	-.687
24	-1.136	-.335	-.186	-.063	-.020	-.091	-.212
25	1.103	1.248	.832	.455	1.035	.993	-1.037
26	.675	1.062	1.093	.477	*000.000	-.123	-.283
27	0.	.523	.728	1.128	1.051	.363	.256
28	-.103	.277	.424	.900	.862	.331	.143
29	-.091	.407	.560	.687	.592	.352	.214
30	.646	1.202	1.148	1.080	.943	.975	.030
31	.789	1.144	1.114	1.087	1.005	1.113	.301
32	.417	.845	.921	.905	.832	.931	.576
33	.192	.534	.701	.735	.606	.633	.153

$\alpha = 45°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.578	.248	-.426	-1.704	-.488	-.550	-2.236
2	-.446	-.920	-1.352	-2.990	-1.692	-1.507	-2.156
3	-.755	-1.332	-1.619	-3.060	-2.066	-1.836	-2.022
4	-1.133	-1.651	-1.829	-2.983	-2.213	-1.945	-1.675
5	-1.350	-1.874	-1.778	-2.527	-2.059	-1.801	-1.291
6	*000.000	*000.000	*000.000	.024	.106	-.214	-.417
7	*000.000	*000.000	*000.000	-1.997	-1.684	-1.094	-1.188
8	*000.000	*000.000	*000.000	-3.084	-2.964	-1.866	-1.435
9	*000.000	*000.000	*000.000	-3.621	-3.890	-2.413	-1.650
10	-1.179	-1.557	-1.709	-3.279	-2.726	-1.610	-1.105
11	-1.081	-1.500	*000.000	-1.275	-1.654	-.782	-.586
12	-1.392	-1.122	-.966	-.694	-.904	-.528	-.452
13	-1.337	-1.227	-.966	-.718	-.714	-.620	-.483
14	-1.761	-1.382	-1.044	-.838	-.808	-.491	-.363
15	-.510	-1.146	.310	.509	.433	.390	-.001
16	-.735	-.268	.013	.197	.122	.009	-.021
17	-1.605	-1.388	-.784	-.620	-.698	-.425	-.297
18	-2.669	-2.354	-1.774	-1.292	-1.411	-1.170	-.811
19	-3.481	-2.987	-2.379	-1.495	-1.830	-.810	-.754
20	-3.681	-3.053	-2.338	-1.346	-1.728	-1.003	-.850
21	-3.974	-3.063	-2.286	-1.272	-1.705	-1.033	-.751
22	-3.170	-2.190	-1.654	-.960	-1.055	-.860	-.577
23	-1.438	-.605	-.339	-.324	-.237	-.321	-.309
24	-1.441	-.479	-.242	-.064	-.066	-.137	-.140
25	1.128	1.236	.783	.355	1.022	.245	-1.366
26	.681	1.132	1.137	.550	*000.000	-.042	-.302
27	.009	.585	.784	1.053	.964	.211	.293
28	-.118	.281	.444	.902	.799	.270	.235
29	-.147	.402	.569	.737	.587	.436	.212
30	.604	1.220	1.189	1.095	.971	.944	.117
31	.681	1.134	1.135	1.053	.996	1.103	.189
32	.382	.818	.919	.919	.810	.763	.511
33	.114	.521	.699	.693	.591	.391	.213

$\alpha = 50°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.465	-.010	-.855	-1.872	-.746	-1.067	-1.424
2	-.615	-1.212	-1.824	-3.111	-2.001	-1.316	-.720
3	-.890	-1.606	-1.963	-3.268	-2.380	-1.500	-.735
4	-1.359	-1.835	-2.088	-3.232	-2.470	-1.454	-.614
5	-1.547	-2.071	-2.036	-2.720	-2.284	-1.213	-.574
6	*000.000	*000.000	*000.000	.036	.063	-.128	-.254
7	*000.000	*000.000	*000.000	-2.220	-1.923	-.606	-.681
8	*000.000	*000.000	*000.000	-3.266	-3.266	-.832	-.415
9	*000.000	*000.000	*000.000	-3.730	-4.108	-.615	-.437
10	-1.256	-1.645	-1.803	-3.048	-2.696	-.303	-.301
11	-1.258	-1.663	*000.000	-1.378	-1.784	-.363	-.204
12	-1.631	-1.340	-1.172	-.774	-.985	-.240	-.250
13	-1.420	-1.241	-.949	-.722	-.638	-.313	-.336
14	-1.910	-1.441	-1.068	-.783	-.625	-.249	-.197
15	-.656	-1.188	.309	.443	.423	.480	-.054
16	-.839	-.258	.051	.164	.130	.206	-.043
17	-1.708	-1.417	-.801	-.645	-.639	-.178	-.259
18	-2.780	-2.346	-1.744	-1.275	-1.093	-.550	-.423
19	-3.696	-3.082	-2.469	-1.489	-1.508	-.398	-.366
20	-4.018	-3.224	-2.540	-1.516	-1.360	-.457	-.317
21	-3.755	-3.024	-2.305	-1.259	-1.107	-.307	-.331
22	-3.009	-2.251	-1.792	-.972	-.774	-.335	-.240
23	-1.378	-.691	-.512	-.474	-.360	-.406	-.350
24	-1.240	-.408	-.185	-.086	-.119	-.315	-.214
25	1.022	1.110	.573	.330	.948	-.619	-.902
26	.764	1.191	1.146	.549	*000.000	.080	-.266
27	.024	.700	.870	1.096	1.025	.187	.231
28	-.117	.343	.491	.897	.830	.260	.181
29	-.189	.407	.563	.867	.553	.405	.318
30	.527	1.187	1.151	1.077	.961	.802	-.043
31	.633	1.193	1.156	1.124	.991	1.154	.034
32	.356	.838	.926	.890	.775	.699	.529
33	.106	.514	.665	.663	.544	.411	.118

Table 13. - Continued.

(b) $C_{T,s} = 0.80$, $q_s = 20.02$

$\alpha = 55°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.293	-.276	-1.148	-2.010	-1.100	-1.244	-1.167
2	-.907	-1.511	-2.170	-3.581	-2.762	-1.221	-.701
3	-1.178	-1.860	-2.348	-3.722	-3.030	-1.598	-.847
4	-1.606	-2.208	-2.474	-3.404	-2.795	-1.149	-.575
5	-1.792	-2.318	-2.291	-2.831	-2.487	-.760	-.578
6	*000.000	*000.000	*000.000	.030	-.010	-.130	-.202
7	*000.000	*000.000	*000.000	-2.234	-2.058	-.714	-.670
8	*000.000	*000.000	*000.000	-3.231	-3.155	-.216	-.328
9	*000.000	*000.000	*000.000	-3.620	-3.961	-.265	-.283
10	-1.449	-1.800	-1.895	-2.978	-2.644	-.341	-.308
11	-1.301	-1.608	*000.000	-1.124	-1.235	-.231	-.285
12	-1.531	-1.307	-1.063	-.684	-.766	-.267	-.325
13	-1.686	-1.394	-1.065	-.778	-.643	-.182	-.425
14	-1.863	-1.383	-.990	-.709	-.608	-.289	-.328
15	-.755	-1.215	.328	.467	.388	.531	-.169
16	-.844	-.266	.136	.166	.185	.174	-.139
17	-1.843	-1.499	-.749	-.460	-.577	-.221	-.247
18	-2.680	-2.340	-1.686	-1.054	-1.025	-.601	-.429
19	-3.761	-3.224	-2.655	-1.524	-1.235	-.701	-.551
20	-3.860	-3.310	-2.510	-1.290	-1.267	-.575	-.635
21	-3.809	-3.157	-2.340	-1.182	-1.148	-.324	-.288
22	-2.849	-2.388	-1.812	-.773	-.587	-.403	-.285
23	-1.262	-.693	-.591	-.356	-.229	-.228	-.177
24	-1.058	-.432	-.181	-.058	-.125	-.152	-.131
25	1.033	1.082	.429	.332	.891	-.502	-.950
26	.735	1.253	1.145	.550	*000.000	.103	-.427
27	-.042	.689	.874	1.097	1.001	.201	.204
28	-.126	.352	.507	.963	.811	.222	.153
29	-.232	.392	.549	.725	.506	.276	.207
30	.437	1.133	1.092	1.034	.856	.717	-.137
31	.590	1.172	1.161	1.088	.988	.966	-.163
32	.303	.883	.984	.879	.759	.711	.277
33	.102	.490	.663	.577	.513	.318	-.011

$\alpha = 60°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.161	-.409	-1.461	-1.985	-1.648	-.478	-.416
2	-.992	-1.694	-2.356	-3.425	-2.682	-.508	-.430
3	-1.340	-2.138	-2.476	-3.481	-2.927	-.460	-.297
4	-1.727	-2.275	-2.508	-3.177	-2.843	-.443	-.413
5	-1.900	-2.391	-2.334	-2.950	-2.580	-.469	-.416
6	*000.000	*000.000	*000.000	-.002	-.067	-.166	-.134
7	*000.000	*000.000	*000.000	-2.132	-1.786	-.462	-.429
8	*000.000	*000.000	*000.000	-3.220	-3.027	-.332	-.418
9	*000.000	*000.000	*000.000	-3.188	-3.356	-.386	-.376
10	-1.515	-1.744	-1.758	-2.405	-1.959	-.197	-.203
11	-1.472	-1.709	*000.000	-1.094	-1.086	-.277	-.236
12	-1.534	-1.377	-1.044	-.590	-.585	-.205	-.239
13	-1.608	-1.288	-.865	-.561	-.465	-.145	-.227
14	-2.003	-1.431	-.987	-.627	-.553	-.253	-.273
15	-.893	-1.204	.358	.456	.387	.471	-.215
16	-.942	-.287	.142	.232	.224	.194	-.089
17	-1.806	-1.528	-.798	-.542	-.510	-.152	-.255
18	-2.712	-2.419	-1.696	-.960	-.755	-.393	-.326
19	-3.279	-2.998	-2.283	-1.113	-1.020	-.409	-.446
20	-3.791	-3.301	-2.453	-1.144	-1.026	-.483	-.470
21	-3.594	-2.990	-2.187	-.944	-1.010	-.425	-.325
22	-2.468	-2.220	-1.671	-.712	-.389	-.265	-.220
23	-1.094	-.695	-.669	-.365	-.324	-.304	-.312
24	-.981	-.278	-.029	-.111	-.203	-.289	-.340
25	1.016	1.068	.326	.294	.684	-.699	-.778
26	.690	1.209	1.128	.435	*000.000	.150	-.354
27	-.046	.713	.899	1.076	.998	.177	-.039
28	-.169	.351	.488	.824	.624	.195	.078
29	-.271	.409	.546	.658	.423	.226	.140
30	.304	1.151	1.083	1.073	.868	.694	-.131
31	.477	1.126	1.120	.952	.909	.808	-.157
32	.255	.799	.887	.693	.662	.609	.203
33	.055	.501	.690	.498	.410	.246	-.069

$\alpha = 65°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.110	-.533	-1.400	-1.840	-1.704	-.453	-.495
2	-1.071	-1.829	-2.436	-3.408	-2.716	-.349	-.322
3	-1.653	-2.452	-2.724	-3.808	-3.518	-.373	-.307
4	-1.952	-2.435	-2.524	-3.267	-2.981	-.396	-.398
5	-2.164	-2.627	-2.356	-2.819	-2.510	-.307	-.276
6	*000.000	*000.000	*000.000	-.030	-.132	-.096	.012
7	*000.000	*000.000	*000.000	-1.963	-1.638	-.304	-.344
8	*000.000	*000.000	*000.000	-2.909	-2.438	-.185	-.210
9	*000.000	*000.000	*000.000	-3.368	-3.300	-.287	-.286
10	-1.670	-1.823	-1.681	-2.090	-1.549	-.198	-.228
11	-1.633	-1.807	*000.000	-.999	-.853	-.130	-.272
12	-1.370	-1.338	-.945	-.502	-.409	-.201	-.258
13	-1.626	-1.327	-.839	-.478	-.362	-.088	-.128
14	-1.820	-1.363	-.858	-.559	-.356	-.167	-.199
15	-.816	-1.170	.331	.404	.330	.409	-.165
16	-.909	-.332	.101	.173	.179	.172	-.145
17	-1.723	-1.515	-.761	-.397	-.307	-.100	-.165
18	-2.589	-2.356	-1.584	-.933	-.747	-.299	-.412
19	-3.353	-3.114	-2.326	-1.245	-.898	-.332	-.514
20	-3.557	-3.197	-2.308	-1.097	-.862	-.399	-.409
21	-3.303	-2.820	-1.999	-.692	-.434	-.272	-.398
22	-2.395	-2.210	-1.765	-.761	-.577	-.396	-.419
23	-1.031	-.699	-.707	-.333	-.276	-.281	-.235
24	-1.009	-.335	-.055	-.168	-.184	-.219	-.250
25	.905	.957	.213	.396	.432	-.383	-.468
26	.689	1.231	1.154	.275	*000.000	.127	-.327
27	-.073	.741	.927	1.087	.981	.180	.072
28	-.204	.302	.461	.777	.545	.188	.108
29	-.302	.384	.516	.697	.342	.216	.138
30	.374	1.118	1.095	1.040	.685	.598	-.222
31	.466	1.137	1.167	.828	.840	.713	-.071
32	.228	.801	.955	.624	.600	.577	.056
33	.058	.428	.626	.399	.320	.280	.086

$\alpha = 70°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-.053	-.752	-1.737	-2.091	-2.450	-.329	-.267
2	-1.344	-1.948	-2.614	-3.391	-2.995	-.357	-.305
3	-1.680	-2.279	-2.533	-3.509	-3.302	-.354	-.318
4	-2.318	-2.808	-2.945	-3.898	-3.305	-.373	-.415
5	-2.218	-2.501	-2.196	-2.754	-2.200	-.300	-.330
6	*000.000	*000.000	*000.000	-.077	-.128	-.077	.065
7	*000.000	*000.000	*000.000	-1.813	-1.337	-.269	-.198
8	*000.000	*000.000	*000.000	-2.878	-2.311	-.224	-.268
9	*000.000	*000.000	*000.000	-2.985	-2.476	-.267	-.319
10	-1.704	-1.781	-1.641	-1.991	-1.345	-.186	-.214
11	-1.681	-1.807	*000.000	-.919	-.647	-.180	-.245
12	-1.328	-1.358	-.945	-.452	-.340	-.227	-.289
13	-1.592	-1.370	-.922	-.569	-.384	-.215	-.261
14	-1.799	-1.401	-.897	-.538	-.491	-.240	-.318
15	-.725	-1.086	.340	.281	.230	.304	-.166
16	-.849	-.312	.161	.093	.170	.136	-.162
17	-1.662	-1.469	-.699	-.409	-.372	-.067	-.176
18	-2.402	-2.304	-1.594	-.835	-.655	-.477	-.439
19	-3.474	-3.101	-2.239	-.814	-.740	-.435	-.292
20	-3.627	-3.101	-2.258	-.906	-.882	-.344	-.421
21	-3.035	-2.933	-2.219	-.660	-.674	-.387	-.340
22	-2.459	-2.182	-1.737	-.683	-.519	-.318	-.381
23	-.908	-.627	-.649	-.338	-.279	-.252	-.285
24	-1.001	-.254	-.054	-.117	-.188	-.183	-.198
25	.932	.964	.165	.320	-.384	-.641	-.560
26	.622	1.205	1.113	.236	*000.000	.203	-.329
27	-.080	.797	.938	1.135	.551	.151	.047
28	-.176	.344	.490	.912	.412	.196	.161
29	-.264	.350	.486	.561	.288	.188	.132
30	.357	1.190	1.154	.920	.669	.573	-.085
31	.517	1.163	1.157	.759	.763	.617	-.119
32	.200	.762	.867	.534	.419	.437	.140
33	.090	.493	.674	.396	.317	.258	.139

Table 13. - Continued.

(c) $C_{T,s} = 0.60$, $q_s = 21.86$

$\alpha = 5^\circ$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.063	1.112	.540	.539	1.091	1.061	.838
2	.811	.935	.507	.578	.955	1.013	.793
3	.637	.741	.388	.465	.711	.841	.632
4	.352	.395	.047	.108	.375	.534	.346
5	-.104	-.144	-.382	-.114	-.044	.032	-.088
6	*000.000	*000.000	*000.000	-.071	.032	.091	.038
7	*000.000	*000.000	*000.000	-.094	-.138	.111	-.002
8	*000.000	*000.000	*000.000	-1.026	-1.103	-.871	-.819
9	*000.000	*000.000	*000.000	-1.880	-2.118	-1.765	-1.554
10	-.500	-.609	-.866	-2.289	-1.862	-1.500	-1.299
11	-.636	-.910	*000.000	-1.384	-1.514	-1.117	-1.046
12	-.946	-.705	-.714	-.698	-1.066	-.768	-.742
13	-.501	-.729	-.671	-.708	-.849	-.727	-.647
14	-.607	-.759	-.690	-.756	-.864	-.713	-.628
15	-.072	-.793	.268	.345	.320	.303	.020
16	.080	.014	-.006	.027	.054	-.079	-.047
17	-.510	-.703	-.327	-.539	-.769	-.534	-.387
18	-1.091	-1.242	-.802	-1.039	-1.229	-1.214	-.820
19	-1.542	-1.673	-1.232	-1.563	-1.662	-1.226	-1.032
20	-1.733	-1.711	-1.233	-1.485	-1.584	-1.594	-1.205
21	-1.678	-1.489	-.998	-1.297	-1.433	-1.174	-1.016
22	-1.347	-.991	-.433	-.735	-.652	-.866	-.764
23	-.784	-.197	-.202	-.196	-.198	-.219	-.328
24	-.714	-.207	-.201	-.197	-.184	-.247	-.297
25	.446	.333	.190	.310	.624	.485	.413
26	-.280	-.446	-.010	-.201	*000.000	.050	-.043
27	-.527	-.454	-.183	-.051	-.016	.207	.054
28	-.232	-.128	.096	.500	.048	.082	.150
29	.061	.258	.272	.542	.497	.383	.319
30	.860	1.057	.400	.779	.707	.589	.121
31	.976	1.095	.400	.812	.958	.774	.226
32	.564	.715	.417	.772	.854	.771	.666
33	.225	.467	.358	.529	.606	.569	.539

$\alpha = 10^\circ$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.085	1.146	.367	.466	1.065	1.113	.878
2	.597	.616	-.058	-.045	.596	.737	.455
3	.436	.391	-.120	-.236	.307	.576	.324
4	.028	-.152	-.521	-.272	-.029	.171	-.008
5	-.405	-.553	-.666	-.437	-.404	-.357	-.427
6	*000.000	*000.000	*000.000	.010	.012	-.022	-.029
7	*000.000	*000.000	*000.000	-.889	-.691	-.518	-.605
8	*000.000	*000.000	*000.000	-1.865	-1.824	-1.487	-1.451
9	*000.000	*000.000	*000.000	-2.395	-2.657	-2.333	-2.149
10	-.673	-.950	-1.111	-2.889	-2.290	-1.937	-1.790
11	-.704	-1.067	*000.000	-1.386	-1.596	-1.269	-1.185
12	-1.183	-.910	-.891	-.750	-1.210	-.947	-.939
13	-.602	-.836	-.723	-.720	-.911	-.797	-.744
14	-.764	-.845	-.730	-.782	-.967	-.845	-.746
15	-.073	-.853	.430	.410	.383	.345	-.026
16	.034	-.012	.084	.051	.006	-.032	-.052
17	-.618	-.806	-.403	-.550	-.862	-.636	-.423
18	-1.327	-1.515	-1.008	-1.197	-1.488	-1.475	-1.011
19	-1.856	-1.883	-1.539	-1.618	-1.896	-1.355	-1.248
20	-1.996	-1.932	-1.464	-1.511	-1.868	-1.673	-1.431
21	-2.119	-1.697	-1.259	-1.300	-1.572	-1.473	-1.252
22	-1.649	-1.003	-.579	-.830	-.879	-.957	-.877
23	-1.118	-.217	-.156	-.211	-.148	-.176	-.457
24	-.714	-.247	-.270	-.024	-.111	-.147	-.365
25	.681	.744	.413	.607	.839	.719	.567
26	.101	.059	.366	-.068	*000.000	.054	-.103
27	-.312	-.187	.147	.448	0.	.194	.065
28	-.149	-.015	.256	.666	.915	.517	.340
29	.045	.291	.366	.513	.573	.547	.421
30	.821	1.107	.615	1.000	1.012	1.003	.109
31	1.044	1.164	.685	1.048	1.119	1.050	.755
32	.622	.772	.592	.858	.887	.832	.804
33	.297	.501	.503	.692	.670	.576	.133

$\alpha = 15^\circ$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.964	.971	-.085	-.027	.797	.995	.704
2	.343	.209	-.558	-.800	.069	.334	.126
3	.048	-.091	-.700	-.785	-.337	.156	-.043
4	-.356	-.548	-.897	-.945	-.570	-.269	-.425
5	-.736	-1.004	-1.147	-1.120	-.896	-.652	-.706
6	*000.000	*000.000	*000.000	.027	.015	-.026	-.085
7	*000.000	*000.000	*000.000	-1.333	-1.119	-.796	-.837
8	*000.000	*000.000	*000.000	-2.421	-2.316	-1.926	-1.851
9	*000.000	*000.000	*000.000	-3.061	-3.349	-2.874	-2.634
10	-.842	-1.189	-1.326	-3.369	-2.675	-2.296	-2.099
11	-.815	-1.192	*000.000	-1.510	-1.763	-1.418	-1.294
12	-1.246	-.965	-.904	-.798	-1.207	-.997	-.934
13	-.710	-.912	-.811	-.817	-.980	-.853	-.837
14	-.953	-.955	-.828	-.822	-.972	-.856	-.765
15	-.070	-.961	.344	.419	.369	.325	-.071
16	-.151	-.069	.080	.087	-.011	-.109	-.139
17	-.941	-.997	-.567	-.720	-1.003	-.765	-.607
18	-1.735	-1.758	-1.337	-1.366	-1.606	-1.632	-1.156
19	-2.349	-2.214	-1.865	-1.670	-1.972	-1.551	-1.336
20	-2.603	-2.248	-1.800	-1.465	-1.790	-1.736	-1.477
21	-2.630	-2.062	-1.573	-1.255	-1.524	-1.501	-1.222
22	-2.367	-1.404	-1.023	-.927	-.997	-1.156	-1.041
23	-1.341	-.324	-.226	-.300	-.141	-.236	-.535
24	-.825	-.194	-.153	-.020	-.026	-.128	-.269
25	1.090	1.196	.520	.686	1.126	1.045	.724
26	.471	.680	.724	.049	*000.000	-.116	-.169
27	-.091	.136	.388	.787	.549	.138	.316
28	-.060	.132	.349	.703	.790	.782	.517
29	.086	.425	.512	.630	.641	.577	.423
30	.813	1.190	.797	.937	.978	1.030	.075
31	.910	1.156	.888	.968	1.055	1.079	.669
32	.596	.818	.711	.830	.855	.805	.813
33	.273	.526	.502	.600	.598	.511	.126

$\alpha = 20^\circ$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.838	.670	-.536	-.739	.240	.741	.207
2	-.011	-.252	-1.071	-1.672	-.768	-.176	-.517
3	-.347	-.713	-1.257	-1.661	-1.098	-.447	-.640
4	-.779	-1.144	-1.527	-1.836	-1.172	-.882	-1.031
5	-.976	-1.426	-1.540	-1.697	-1.322	-1.049	-1.108
6	*000.000	*000.000	*000.000	.069	.067	-.062	-.154
7	*000.000	*000.000	*000.000	-1.700	-1.478	-1.271	-1.276
8	*000.000	*000.000	*000.000	-2.828	-2.821	-2.451	-2.367
9	*000.000	*000.000	*000.000	-3.602	-3.933	-3.368	-3.020
10	-.942	-1.358	-1.485	-3.332	-2.692	-2.316	-2.094
11	-.968	-1.470	*000.000	-1.673	-1.985	-1.643	-1.509
12	-1.431	-1.073	-1.052	-.830	-1.260	-1.061	-1.034
13	-.924	-1.088	-.998	-.872	-1.026	-.914	-.850
14	-1.156	-1.081	-.920	-.844	-.961	-.904	-.841
15	-.183	-1.064	.340	.490	.426	.368	.107
16	-.317	-.099	.086	.084	.009	-.071	-.151
17	-1.177	-1.237	-.750	-.775	-.995	-.813	-.710
18	-1.958	-1.883	-1.516	-1.339	-1.532	-1.563	-1.145
19	-2.722	-2.397	-2.092	-1.557	-1.830	-1.591	-1.264
20	-3.281	-2.665	-2.205	-1.594	-1.872	-1.827	-1.582
21	-3.331	-2.384	-1.910	-1.265	-1.536	-1.471	-1.249
22	-2.750	-1.556	-1.303	-.950	-.967	-1.168	-1.154
23	-1.497	-.418	-.336	-.291	-.237	-.373	-.707
24	-1.112	-.281	-.252	-.065	-.027	-.121	-.244
25	1.142	1.216	.484	.630	1.048	1.076	.280
26	.709	1.011	.862	.248	*000.000	-.245	-.192
27	.113	.398	.611	.965	.941	.309	.510
28	-.010	.232	.438	.823	.837	.694	.450
29	.070	.445	.558	.796	.657	.558	.411
30	.820	1.281	1.101	1.059	1.066	1.079	.002
31	.867	1.165	1.015	1.042	1.069	1.067	.617
32	.569	.834	.814	.858	.864	.815	.735
33	.326	.619	.618	.726	.678	.578	.159

$\alpha = 25^\circ$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.494	.151	-1.043	-1.115	-.232	.456	-.743
2	-.532	-.953	-1.878	-2.369	-1.340	-.631	-1.146
3	-.793	-1.284	-1.725	-2.165	-1.576	-.814	-1.189
4	-1.199	-1.738	-2.109	-2.575	-1.947	-1.379	-1.506
5	-1.408	-2.011	-1.959	-2.194	-1.697	-1.292	-1.351
6	*000.000	*000.000	*000.000	.033	.167	-.043	-.110
7	*000.000	*000.000	*000.000	-2.158	-1.907	-1.417	-1.409
8	*000.000	*000.000	*000.000	-3.259	-3.203	-2.509	-2.369
9	*000.000	*000.000	*000.000	-3.976	-4.279	-3.331	-2.919
10	-1.270	-1.771	-1.870	-3.910	-3.166	-2.562	-2.254
11	-1.068	-1.520	*000.000	-1.661	-1.943	-1.480	-1.294
12	-1.497	-1.131	-1.058	-.863	-1.245	-.884	-.800
13	-1.144	-1.217	-1.035	-.899	-1.021	-.776	-.640
14	-1.423	-1.197	-.908	-.887	-.976	-.791	-.623
15	-.396	-1.076	.461	.493	.448	.350	.009
16	-.518	-.149	.051	.037	.035	-.082	-.127
17	-1.400	-1.266	-.679	-.814	-.874	-.578	-.458
18	-2.326	-2.096	-1.661	-1.465	-1.574	-1.337	-1.826
19	-3.320	-2.763	-2.323	-1.840	-2.126	-1.452	-1.147
20	-3.669	-2.711	-2.189	-1.661	-2.006	-1.630	-1.350
21	-3.576	-2.395	-1.829	-1.298	-1.550	-1.362	-1.220
22	-3.438	-1.867	-1.496	-1.119	-1.228	-1.226	-1.128
23	-1.692	-.451	-.256	-.333	-.255	-.424	-.642
24	-1.319	-.325	-.238	-.082	-.012	-.143	-.210
25	1.134	1.184	.390	.459	.973	1.109	.001
26	.907	1.154	1.020	.421	*000.000	.048	-.227
27	.242	.615	.810	1.034	1.085	.541	.397
28	.036	.352	.553	.828	.845	.656	.447
29	-.004	.492	.688	.857	.711	.573	.466
30	.648	1.203	1.106	.996	1.001	.985	-.029
31	.815	1.234	1.143	1.098	1.074	1.071	.498
32	.506	.876	.917	.931	.912	.846	.727
33	.255	.601	.703	.708	.672	.515	.118

$\alpha = 30^\circ$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.202	-.317	-1.613	-1.850	-.825	.111	-1.291
2	-.884	-1.611	-2.632	-3.189	-2.057	-1.029	-1.797
3	-1.203	-2.096	-2.832	-3.351	-2.411	-1.386	-1.855
4	-1.544	-2.327	-2.786	-3.345	-2.514	-1.566	-1.729
5	-1.783	-2.530	-2.567	-2.814	-2.376	-1.778	-1.743
6	*000.000	*000.000	*000.000	.026	.106	-.017	-.270
7	*000.000	*000.000	*000.000	-2.436	-2.100	-1.474	-1.632
8	*000.000	*000.000	*000.000	-3.628	-3.471	-2.397	-2.166
9	*000.000	*000.000	*000.000	-4.058	-4.345	-3.282	-2.759
10	-1.387	-1.918	-2.139	-4.009	-3.154	-2.373	-2.094
11	-1.188	-1.636	*000.000	-1.667	-1.884	-1.173	-1.030
12	-1.663	-1.270	-1.098	-.957	-1.286	-.748	-.809
13	-1.397	-1.337	-1.126	-.974	-1.117	-.801	-.687
14	-1.775	-1.361	-1.053	-.951	-.998	-.733	-.562
15	-.560	-1.057	.406	.577	.463	.408	-.099
16	-.758	-.187	.114	.088	.018	-.036	-.117
17	-1.662	-1.396	-.751	-.812	-.958	-.686	-.541
18	-2.703	-2.252	-1.702	-1.412	-1.579	-1.547	-1.094
19	-3.603	-2.835	-2.344	-1.699	-2.154	-1.366	-1.044
20	-4.462	-3.216	-2.555	-1.758	-2.254	-1.877	-1.606
21	-4.555	-2.975	-2.277	-1.414	-1.999	-1.444	-1.238
22	-3.725	-2.195	-1.614	-1.067	-1.133	-1.118	-1.184
23	-1.705	-.547	-.334	-.366	-.339	-.444	-.718
24	-1.694	-.381	-.154	-.047	-.103	-.164	-.229
25	1.180	1.145	.053	.263	.858	1.119	-.301
26	1.087	1.393	1.111	.643	*000.000	.175	-.340
27	.413	.875	1.048	1.169	1.180	.517	.388
28	.104	.504	.671	.896	.844	.627	.314
29	-.002	.536	.660	.740	.622	.495	.300
30	.591	1.274	1.279	1.097	.979	1.016	.088
31	.841	1.404	1.359	1.233	1.148	1.177	.396
32	.497	.945	1.010	.940	.850	.808	.501
33	.261	.631	.758	.769	.646	.514	.126

Table 13. - Continued.

(c) $C_{T,s} = 0.60$, $q_s = 21.86$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.152	-.920	-2.341	-2.475	-1.214	-.263	-2.199
2	-1.274	-2.270	-3.345	-3.792	-2.511	-1.429	-2.132
3	-1.662	-2.657	-3.353	-4.112	-2.956	-1.929	-2.252
4	-2.055	-2.942	-3.443	-3.989	-2.937	-2.165	-2.020
5	-2.226	-3.112	-3.198	-3.419	-2.761	-2.113	-1.779
6	*000.000	*000.000	*000.000	-.008	.110	-.088	-.213
7	*000.000	*000.000	*000.000	-2.544	-2.091	-1.446	-1.489
8	*000.000	*000.000	*000.000	-3.732	-3.501	-2.426	-2.080
9	*000.000	*000.000	*000.000	-4.350	-4.534	-3.194	-2.433
10	-1.634	-2.118	-2.214	-4.031	-3.037	-2.092	-1.578
11	-1.398	-1.792	*000.000	-1.658	-1.856	-1.176	-.936
12	-1.720	-1.388	-1.202	-.982	-1.107	-.720	-.608
13	-1.544	-1.393	-1.093	-.825	-.810	-.587	-.469
14	-2.007	-1.519	-1.139	-.862	-.870	-.790	-.634
15	-.839	-1.140	.439	.615	.510	.489	-.154
16	-.964	-.242	.147	.181	.147	-.001	-.170
17	-1.877	-1.544	-.822	-.719	-.817	-.574	-.537
18	-3.311	-2.716	-1.990	-1.591	-1.627	-1.383	-.936
19	-4.134	-3.184	-2.507	-1.774	-2.049	-1.358	-.947
20	-5.010	-3.569	-2.754	-1.734	-2.142	-1.718	-1.321
21	-4.706	-3.137	-2.256	-1.472	-1.993	-1.191	-.910
22	-3.818	-2.346	-1.777	-1.035	-1.350	-1.045	-.790
23	-2.022	-.708	-.495	-.410	-.320	-.525	-.699
24	-1.839	-.404	-.102	-.100	-.014	-.196	-.211
25	1.000	.849	-.391	.004	.787	.994	-.967
26	1.062	1.314	1.087	.759	*000.000	.144	-.305
27	.469	.973	1.160	1.171	1.152	.440	.390
28	.079	.599	.743	1.055	.953	.567	.407
29	-.043	.554	.655	.806	.806	.538	.396
30	.466	1.288	1.250	1.133	1.046	.985	.006
31	.654	1.297	1.249	1.146	1.131	1.158	.188
32	.412	.906	1.000	.961	.880	.740	.489
33	.181	.609	.749	.742	.671	.464	.118

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.547	-1.537	-3.032	-3.154	-1.844	-1.393	-2.934
2	-2.030	-3.179	-4.320	-5.073	-3.357	-2.176	-2.994
3	-2.445	-3.828	-4.662	-5.522	-4.027	-2.792	-3.215
4	-2.442	-3.569	-4.045	-4.514	-3.341	-2.440	-2.241
5	-2.478	-3.421	-3.474	-3.705	-3.032	-2.528	-1.948
6	*000.000	*000.000	*000.000	-.067	.022	-.135	-.320
7	*000.000	*000.000	*000.000	-3.002	-2.362	-1.528	-1.555
8	*000.000	*000.000	*000.000	-4.053	-3.711	-2.434	-1.908
9	*000.000	*000.000	*000.000	-4.639	-4.641	-3.120	-2.280
10	-1.747	-2.382	-2.496	-4.061	-3.132	-2.036	-1.465
11	-1.501	-1.891	*000.000	-1.614	-1.692	-1.051	-.789
12	-1.780	-1.512	-1.229	-.998	-1.101	-.685	-.617
13	-1.844	-1.630	-1.256	-.964	-.900	-.692	-.495
14	-2.097	-1.520	-1.123	-.886	-.856	-.680	-.537
15	-.957	-1.138	.404	.458	.478	.413	-.108
16	-1.199	-.341	.076	.126	.112	-.013	-.069
17	-2.234	-1.831	-1.074	-.851	-.980	-.585	-.377
18	-3.404	-2.790	-2.046	-1.465	-1.600	-1.350	-.836
19	-4.358	-3.387	-2.500	-1.645	-1.933	-1.227	-.869
20	-5.115	-3.667	-2.560	-1.656	-2.180	-1.586	-1.103
21	-5.066	-3.466	-2.394	-1.424	-1.965	-1.309	-.915
22	-3.869	-2.465	-1.790	-1.074	-1.427	-1.185	-.985
23	-1.918	-.775	-.637	-.428	-.344	-.508	-.619
24	-1.954	-.475	-.115	-.105	-.120	-.179	-.142
25	.893	.504	-.669	-.405	.456	-.278	-1.455
26	1.106	1.296	1.103	.812	*000.000	.053	-.391
27	.527	1.075	1.200	1.171	1.088	.391	.430
28	.120	.620	.774	1.143	.918	.423	.320
29	-.124	.635	.801	.916	.761	.497	.466
30	.375	1.253	1.219	1.137	1.015	.891	.134
31	.601	1.275	1.258	1.128	1.097	1.037	.245
32	.386	.926	1.020	.959	.870	.750	.518
33	.199	.623	.783	.776	.650	.439	.162

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.970	-2.312	-3.837	-4.006	-2.654	-2.720	-3.496
2	-2.330	-3.806	-5.094	-5.372	-3.677	-2.712	-3.247
3	-2.573	-4.099	-4.988	-5.477	-4.255	-3.119	-3.249
4	-2.846	-4.113	-4.802	-5.241	-4.108	-3.018	-2.790
5	-2.740	-3.715	-3.844	-4.014	-3.332	-2.413	-1.854
6	*000.000	*000.000	*000.000	-.132	-.061	-.343	-.436
7	*000.000	*000.000	*000.000	-2.816	-2.290	-1.512	-1.425
8	*000.000	*000.000	*000.000	-4.135	-3.804	-2.254	-1.871
9	*000.000	*000.000	*000.000	-4.476	-4.487	-2.623	-1.941
10	-1.870	-2.453	-2.608	-3.660	-3.173	-1.732	-1.334
11	-1.608	-2.035	*000.000	-1.648	-1.866	-.927	-.807
12	-1.786	-1.499	-1.227	-1.009	-1.070	-.638	-.609
13	-1.850	-1.489	-1.084	-.817	-.829	-.483	-.436
14	-2.138	-1.546	-1.090	-.861	-.843	-.475	-.418
15	-.982	-1.118	.439	.444	.356	.391	-.121
16	-1.231	-.390	.022	.058	.035	.028	-.140
17	-2.234	-1.792	-1.069	-.762	-.816	-.413	-.345
18	-3.399	-2.808	-2.101	-1.412	-1.425	-1.024	-.816
19	-4.478	-3.676	-2.768	-1.878	-2.153	-1.186	-.936
20	-5.197	-3.912	-2.745	-1.675	-1.891	-.973	-.784
21	-4.402	-3.312	-2.334	-1.310	-1.614	-.775	-.601
22	-3.313	-2.454	-1.767	-.961	-1.111	-.791	-.728
23	-1.775	-.832	-.711	-.482	-.394	-.542	-.544
24	-1.915	-.478	-.047	-.155	-.127	-.189	-.236
25	.729	.199	-.985	-.544	.244	-1.459	-1.771
26	1.157	1.353	1.103	.892	*000.000	.221	-.525
27	.525	1.116	1.216	1.139	.985	.328	.256
28	.102	.660	.815	1.119	.820	.380	.335
29	-.135	.575	.739	.809	.598	.424	.372
30	.290	1.254	1.245	1.128	1.018	.800	-.043
31	.569	1.337	1.342	1.115	1.142	1.055	.165
32	.343	.943	1.051	.806	.857	.733	.445
33	.169	.614	.781	.588	.573	.399	.158

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.433	-3.179	-4.857	-4.675	-3.386	-.987	-1.123
2	-2.600	-4.227	-5.422	-5.642	-4.145	-1.214	-.869
3	-3.182	-4.820	-5.672	-6.337	-5.080	-.937	-.564
4	-3.056	-4.323	-4.949	-5.378	-4.206	-.537	-.506
5	-3.112	-4.156	-4.227	-4.318	-3.473	-.605	-.654
6	*000.000	*000.000	*000.000	-.186	-.205	-.092	-.017
7	*000.000	*000.000	*000.000	-2.786	-2.168	-.524	-.521
8	*000.000	*000.000	*000.000	-4.348	-3.872	-.580	-.673
9	*000.000	*000.000	*000.000	-4.465	-4.310	-.426	-.448
10	-2.017	-2.595	-2.712	-3.332	-2.625	-.428	-.380
11	-1.758	-2.119	*000.000	-1.519	-1.288	-.334	-.394
12	-1.745	-1.538	-1.187	-.872	-.787	-.394	-.387
13	-1.779	-1.478	-1.067	-.791	-.658	-.301	-.362
14	-2.304	-1.585	-1.114	-.760	-.705	-.285	-.401
15	-.965	-1.109	.473	.474	.315	.426	0.
16	-1.152	-.337	.080	.160	.134	.160	-.106
17	-2.073	-1.776	-1.108	-.608	-.452	-.256	-.330
18	-3.065	-2.660	-1.966	-1.085	-.728	-.603	-.662
19	-4.530	-3.844	-2.801	-1.635	-1.403	-.594	-.739
20	-4.574	-3.592	-2.454	-1.374	-1.005	-.579	-.765
21	-3.981	-3.433	-2.426	-1.254	-1.051	-.640	-.704
22	-3.357	-2.632	-1.827	-.816	-.711	-.516	-.508
23	-1.338	-.775	-.707	-.459	-.561	-.524	-.518
24	-1.731	-.404	-.091	-.236	-.314	-.390	-.412
25	.631	-.085	-1.400	-.736	.235	-.978	-.809
26	1.102	1.263	1.015	.835	*000.000	.325	-.464
27	.572	1.193	1.238	1.167	.982	.331	.330
28	.100	.760	.840	.933	.705	.341	.339
29	-.155	.566	.734	.743	.489	.419	.382
30	.293	1.193	1.173	1.073	.876	.685	.011
31	.538	1.269	1.246	.946	.959	.818	.152
32	.322	.939	1.091	.707	.721	.634	.469
33	.165	.599	.782	.612	.454	.369	.094

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.409	-3.317	-4.915	-4.618	-3.437	-.834	-1.044
2	-3.233	-5.157	-6.370	-6.477	-4.878	-.537	-.503
3	-3.824	-5.698	-6.478	-7.035	-5.542	-.575	-.566
4	-3.260	-4.590	-5.073	-5.352	-3.993	-.430	-.405
5	-3.373	-4.317	-4.403	-4.457	-3.569	-.581	-.524
6	*000.000	*000.000	*000.000	-.192	-.428	-.114	-.127
7	*000.000	*000.000	*000.000	-2.557	-2.036	-.703	-.602
8	*000.000	*000.000	*000.000	-4.150	-3.292	-.490	-.617
9	*000.000	*000.000	*000.000	-3.914	-3.440	-.370	-.459
10	-2.274	-2.810	-2.805	-1.822	-2.016	-.411	-.443
11	-1.829	-2.126	*000.000	-1.371	-.940	-.293	-.434
12	-1.795	-1.624	-1.190	-.858	-.642	-.200	-.391
13	-2.003	-1.624	-1.179	-.718	-.535	-.246	-.522
14	-2.393	-1.743	-1.214	-.670	-.456	-.348	-.477
15	-.971	-1.143	.426	.479	.377	.394	.003
16	-1.040	-.375	.036	.109	.146	.119	-.069
17	-2.057	-1.819	-1.108	-.518	-.567	-.256	-.444
18	-2.783	-2.672	-1.953	-.832	-.677	-.650	-.638
19	-4.051	-3.546	-2.564	-1.067	-.980	-.562	-.771
20	-4.161	-3.666	-2.656	-1.103	-.859	-.543	-.754
21	-3.465	-3.142	-2.102	-.600	-.562	-.412	-.582
22	-2.710	-2.269	-1.614	-.573	-.575	-.466	-.522
23	-1.453	-.799	-.757	-.497	-.481	-.511	-.452
24	-1.290	-.301	-.169	-.342	-.343	-.341	-.357
25	-.545	-.434	-2.002	-.927	-.775	-1.275	-.755
26	1.011	1.217	.905	.830	*000.000	.259	-.545
27	.485	1.214	1.270	.833	.642	.312	.270
28	.079	.723	.906	.999	.547	.411	.383
29	-.250	.524	.711	.719	.432	.410	.393
30	.266	1.178	1.196	.999	.804	.668	.005
31	.457	1.306	1.308	.835	.965	.879	.261
32	.241	.874	1.001	.675	.517	.530	.400
33	.108	.492	.708	.532	.338	.318	.079

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.765	-3.837	-5.520	-4.932	-4.255	-.672	-.795
2	-3.464	-5.608	-6.830	-6.905	-4.700	-.718	-.643
3	-3.565	-5.381	-6.096	-6.215	-4.605	-.493	-.629
4	-3.774	-5.119	-5.491	-5.557	-3.440	-.428	-.412
5	-3.328	-4.265	-4.292	-4.173	-2.930	-.521	-.531
6	*000.000	*000.000	*000.000	-.428	-.137	-.616	-.038
7	*000.000	*000.000	*000.000	-2.120	-1.589	-.561	-.529
8	*000.000	*000.000	*000.000	-2.977	-2.028	-.618	-.617
9	*000.000	*000.000	*000.000	-2.677	-1.441	-.391	-.552
10	-2.274	-2.708	-1.481	-1.185	-.847	-.323	-.370
11	-1.786	-2.084	*000.000	-.958	-.503	-.372	-.398
12	-1.555	-1.504	-1.029	-.548	-.413	-.260	-.362
13	-1.865	-1.351	-.864	-.424	-.431	-.309	-.409
14	-2.040	-1.195	-.681	-.416	-.382	-.352	-.377
15	-.984	-1.042	.400	.413	.301	.350	.023
16	-.998	-.245	.150	.110	.067	.084	-.078
17	-1.837	-1.670	-.828	-.442	-.538	-.126	-.559
18	-2.540	-2.346	-1.617	-.649	-.621	-.505	-.701
19	-3.607	-2.923	-1.943	-.733	-.639	-.519	-.698
20	-4.018	-2.934	-1.752	-.631	-.712	-.574	-.798
21	-3.479	-2.721	-1.645	-.627	-.548	-.562	-.687
22	-2.529	-1.893	-1.252	-.524	-.486	-.574	-.522
23	-1.097	-.558	-.549	-.388	-.468	-.501	-.526
24	-.946	-.313	-.359	-.370	-.336	-.311	-.255
25	.388	-.727	-2.178	-1.075	-1.729	-1.003	-.739
26	1.025	1.257	.864	.874	*000.000	.334	-.522
27	.349	1.259	1.243	1.186	.440	.274	.311
28	.015	.685	.835	.723	.437	.364	.387
29	-.206	.494	.664	.659	.436	.408	.388
30	.326	1.205	1.182	.848	.706	.601	.117
31	.471	1.248	1.245	.751	.696	.628	.352
32	.231	.831	.967	.729	.466	.463	.383
33	.068	.455	.607	.491	.327	.322	.184

Table 13. - Continued.

(d) $C_{T,s} = 0.30$, $q_s = 19.51$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.118	1.199	.735	-.020	1.162	.990	.952
2	.733	.720	.233	.610	1.127	1.152	.990
3	.358	.298	-.109	.696	.852	.929	.786
4	-.056	-.242	-.556	.286	.471	.538	.459
5	-.500	-.713	-1.014	-.045	.128	.140	.113
6	*000.000	*000.000	*000.000	-.018	.036	-.077	-.187
7	*000.000	*000.000	*000.000	-.500	-.068	.040	.139
8	*000.000	*000.000	*000.000	-1.484	-1.333	-1.132	-1.138
9	*000.000	*000.000	*000.000	-2.478	-2.516	-2.142	-2.083
10	-.663	-.919	-1.299	-2.461	-2.002	-1.868	-1.692
11	-.830	-1.170	*000.000	-1.462	-1.649	-1.424	-1.342
12	-1.241	-.910	-.901	-.946	-1.174	-1.019	-1.022
13	-.667	-.889	-.791	-.798	-.966	-.949	-.876
14	-.833	-.947	-.829	-.805	-.930	-.908	-.798
15	-.066	-2.053	.122	.290	.331	.264	-.171
16	-.114	-.078	-.036	-.059	-.076	-.208	-.188
17	-.787	-.967	-.559	-.648	-.771	-.649	-.608
18	-1.448	-1.643	-1.181	-1.221	-1.443	-1.424	-1.231
19	-2.092	-2.105	-1.640	-1.521	-1.631	-1.511	-1.271
20	-2.215	-2.040	-1.516	-1.370	-1.483	-1.486	-1.472
21	-2.287	-1.860	-1.264	-1.038	-1.275	-1.226	-1.134
22	-2.038	-1.314	-.624	-.721	-.733	-1.124	-1.028
23	-1.231	-.283	-.245	-.267	-.257	-.305	-.350
24	-.832	-.302	-.257	-.240	-.247	-.296	-.375
25	.725	.821	.625	.279	.518	.301	.258
26	.098	.137	.316	.277	*000.000	-.120	-.537
27	-.373	-.286	-.116	-.022	-.077	-.227	-.135
28	-.200	-.116	.104	.116	.094	.069	.157
29	.027	.232	.293	.308	.327	.319	.303
30	.815	1.094	.504	.566	.527	.508	.288
31	.896	1.138	.550	.680	.671	.545	.717
32	.535	.757	.435	.666	.840	.575	.770
33	.258	.471	.373	.590	.622	.489	.229

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.873	.876	.015	.525	.947	1.020	.861
2	.082	-.145	-1.017	.068	.460	.548	.606
3	-.189	-.477	-1.094	-.006	.264	.400	.357
4	-.582	-.988	-1.555	-.349	-.103	.035	-.017
5	-.996	-1.477	-1.864	-.691	-.505	-.324	-.386
6	*000.000	*000.000	*000.000	-.194	-.036	-.030	-.086
7	*000.000	*000.000	*000.000	-1.160	-.901	-.750	-.806
8	*000.000	*000.000	*000.000	-2.380	-2.103	-1.836	-1.860
9	*000.000	*000.000	*000.000	-3.266	-3.358	-2.976	-2.909
10	-1.024	-1.487	-1.964	-3.441	-2.773	-2.510	-2.458
11	-1.009	-1.451	*000.000	-1.650	-1.917	-1.641	-1.600
12	-1.536	-1.104	-1.088	-1.019	-1.353	-1.184	-1.181
13	-.898	-1.097	-1.020	-.976	-1.115	-1.008	-.939
14	-1.039	-1.018	-.902	-.893	-1.011	-.956	-.866
15	-.197	-2.075	.271	.344	.347	.329	-.050
16	-.238	-.065	.007	.023	-.039	-.113	-.163
17	-1.045	-1.111	-.573	-.767	-1.068	-.832	-.867
18	-1.818	-1.790	-1.288	-1.364	-1.528	-1.468	-1.211
19	-2.445	-2.249	-1.766	-1.658	-1.791	-1.550	-1.387
20	-3.049	-2.431	-1.891	-1.683	-1.838	-1.828	-1.726
21	-3.106	-2.124	-1.533	-1.465	-1.627	-1.474	-1.342
22	-2.491	-1.273	-.826	-.915	-.859	-.943	-.956
23	-1.563	-.366	-.281	-.271	-.221	-.248	-.556
24	-1.096	-.303	-.289	-.180	-.270	-.233	-.349
25	.947	1.110	.597	.538	.820	.757	.701
26	.427	.601	.618	-.265	*000.000	.116	.458
27	-.107	.106	.321	.342	-.206	.128	.235
28	-.104	.043	.242	.557	.738	.571	.458
29	.031	.324	.381	.483	.563	.534	.342
30	.757	1.193	.712	.855	.894	.883	.146
31	.904	1.210	.683	.974	1.051	.987	.777
32	.541	.784	.580	.807	.857	.787	.767
33	.307	.548	.449	.603	.613	.555	.158

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.439	.279	-1.155	.044	.471	.674	.656
2	-.462	-.813	-2.092	-.919	-.236	.054	.050
3	-.788	-1.385	-2.423	-1.037	-.615	-.305	-.271
4	-1.175	-1.917	-2.676	-1.279	-.905	-.749	-.716
5	-1.371	-2.061	-2.432	-1.367	-1.146	-1.027	-1.016
6	*000.000	*000.000	*000.000	-.086	-.012	-.033	-.019
7	*000.000	*000.000	*000.000	-1.714	-1.354	-1.289	-1.308
8	*000.000	*000.000	*000.000	-2.826	-2.591	-2.402	-2.356
9	*000.000	*000.000	*000.000	-3.664	-3.800	-3.486	-3.357
10	-1.194	-1.752	-2.151	-3.804	-3.013	-2.758	-2.697
11	-1.240	-1.741	*000.000	-1.831	-2.239	-1.978	-1.951
12	-1.884	-1.309	-1.276	-1.050	-1.533	-1.390	-1.320
13	-1.025	-1.133	-1.028	-.958	-1.100	-1.035	-1.028
14	-1.335	-1.176	-.988	-.936	-1.044	-1.037	-.965
15	-.333	-2.163	.363	.490	.905	.284	-.167
16	-.506	-.100	.065	.081	.040	-.172	-.208
17	-1.479	-1.358	-.746	-.836	-1.108	-.932	-.756
18	-2.249	-2.025	-1.516	-1.469	-1.604	-1.732	-1.283
19	-3.226	-2.622	-2.178	-1.802	-1.990	-1.756	-1.494
20	-3.826	-2.775	-2.244	-1.811	-1.820	-1.852	-1.598
21	-3.544	-2.272	-1.714	-1.369	-1.466	-1.538	-1.316
22	-3.414	-1.640	-1.210	-1.084	-.971	-1.213	-1.111
23	-1.724	-.408	-.276	-.292	-.148	-.291	-.621
24	-1.399	-.351	-.277	-.118	-.195	-.139	-.361
25	1.149	1.305	.135	.736	1.068	.999	.988
26	.868	1.114	.824	.035	*000.000	-.327	.490
27	.208	.490	.652	.876	.635	.312	.384
28	.058	.282	.492	.727	.754	.719	.640
29	.064	.452	.575	.652	.640	.620	.554
30	.681	1.263	.855	1.050	.985	.999	.329
31	.806	1.236	.850	1.081	1.049	1.007	.909
32	.587	.937	.763	.962	.902	.815	.926
33	.332	.641	.573	.703	.657	.602	.226

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.014	-.571	-2.658	-1.058	-.345	.178	-.021
2	-1.262	-2.117	-3.689	-2.184	-1.537	-1.000	-1.187
3	-1.547	-2.573	-3.736	-2.472	-1.955	-1.395	-1.409
4	-1.791	-2.718	-3.598	-2.550	-2.121	-1.719	-1.743
5	-2.001	-2.946	-3.398	-2.536	-2.246	-1.897	-1.884
6	*000.000	*000.000	*000.000	-.121	.016	-.109	-.218
7	*000.000	*000.000	*000.000	-2.420	-2.002	-1.891	-1.940
8	*000.000	*000.000	*000.000	-3.824	-3.549	-3.289	-3.275
9	*000.000	*000.000	*000.000	-4.736	-4.880	-4.457	-4.337
10	-1.543	-2.275	-2.670	-4.367	-3.434	-3.186	-3.106
11	-1.408	-2.007	*000.000	-1.990	-2.385	-2.147	-2.153
12	-1.990	-1.443	-1.334	-1.096	-1.508	-1.390	-1.379
13	-1.281	-1.306	-1.145	-1.006	-1.133	-1.113	-1.098
14	-1.843	-1.447	-1.197	-1.110	-1.095	-1.101	-1.044
15	-.606	-2.287	.410	.538	.429	.371	-.158
16	-.843	-.192	.083	.064	.024	-.110	-.236
17	-1.724	-1.455	-.814	-.806	-.930	-.812	-.781
18	-3.019	-2.479	-1.865	-1.672	-1.607	-1.747	-1.449
19	-3.949	-2.926	-2.367	-1.901	-1.802	-1.658	-1.409
20	-4.465	-2.985	-2.331	-1.836	-1.639	-1.743	-1.571
21	-4.799	-2.917	-2.120	-1.512	-1.372	-1.367	-1.325
22	-4.007	-2.084	-1.374	-1.090	-.763	-1.000	-1.140
23	-1.946	-.450	-.268	-.304	-.322	-.311	-.650
24	-1.836	-.423	-.323	-.092	-.141	-.179	-.321
25	1.138	1.114	-.684	.596	1.015	1.083	.825
26	1.110	1.340	.847	.184	*000.000	-.199	.461
27	.451	.797	.863	1.043	.905	.739	.843
28	.141	.464	.888	.848	.862	.774	.539
29	.063	.527	.673	.742	.725	.680	.539
30	.618	1.315	1.141	1.091	1.008	1.012	.225
31	.764	1.267	1.003	1.067	1.022	1.030	.826
32	.566	.979	.860	.951	.888	.813	.767
33	.304	.633	.647	.706	.632	.578	.166

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.878	-1.590	-3.608	-1.943	-1.416	-.647	-1.213
2	-2.102	-3.462	-5.152	-3.698	-2.861	-1.914	-2.098
3	-2.442	-3.810	-5.156	-3.816	-3.144	-2.227	-2.324
4	-2.418	-3.644	-4.644	-3.632	-2.899	-2.226	-2.247
5	-2.585	-3.833	-4.224	-3.301	-2.793	-2.378	-2.362
6	*000.000	*000.000	*000.000	-.180	-.053	-.137	-.309
7	*000.000	*000.000	*000.000	-2.931	-2.487	-2.161	-2.180
8	*000.000	*000.000	*000.000	-4.714	-4.437	-3.868	-3.870
9	*000.000	*000.000	*000.000	-4.977	-5.113	-4.463	-4.343
10	-1.805	-2.603	-2.984	-4.802	-3.809	-3.491	-3.447
11	-1.601	-2.232	*000.000	-2.181	-2.573	-2.270	-2.228
12	-2.304	-1.695	-1.560	-1.214	-1.685	-1.554	-1.471
13	-1.695	-1.587	-1.315	-1.113	-1.192	-1.109	-1.094
14	-2.296	-1.484	-1.292	-1.170	-1.161	-1.138	-1.075
15	-.977	-2.401	.373	.529	.421	.372	-.229
16	-1.170	-.312	.025	.034	-.034	-.122	-.289
17	-2.325	-1.781	-1.049	-.954	-1.032	-.881	-.928
18	-3.479	-2.605	-1.925	-1.649	-1.539	-1.634	-1.336
19	-4.833	-3.328	-2.666	-2.111	-1.843	-1.673	-1.393
20	-5.410	-3.409	-2.633	-1.884	-1.487	-1.686	-1.563
21	-5.607	-3.329	-2.465	-1.610	-1.058	-1.236	-1.257
22	-4.703	-2.432	-1.785	-1.206	-.810	-1.050	-1.025
23	-2.335	-.647	-.370	-.389	-.311	-.347	-.522
24	-2.605	-.545	-.336	-.157	-.352	-.358	-.377
25	.848	.576	-1.572	.266	.659	.919	.320
26	1.186	1.392	.817	.516	*000.000	.190	.356
27	.665	1.068	1.073	1.138	.849	.701	.778
28	.246	.650	.830	.961	.928	.831	.616
29	.010	.586	.678	.958	.716	.656	.548
30	.456	1.245	1.175	.906	.947	.965	.079
31	.682	1.359	1.179	1.171	1.072	1.056	.824
32	.568	1.073	1.113	1.207	.929	.876	.846
33	.275	.719	.806	.784	.660	.585	.200

Table 13. - Concluded.

(d) $C_{T,s} = 0.30$, $q_s = 19.51$

$\alpha = 30°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-1.544	-3.030	-5.465	-3.132	-2.177	-.947	-1.697
2	-2.927	-4.648	-6.378	-4.925	-3.545	-2.160	-2.429
3	-3.065	-4.794	-5.956	-4.818	-3.783	-2.598	-2.716
4	-3.382	-4.993	-5.923	-4.979	-3.791	-2.758	-2.685
5	-3.063	-4.566	-4.956	-4.231	-3.572	-2.982	-2.867
6	*000.000	*000.000	*000.000	-.266	-.134	-.167	-.387
7	*000.000	*000.000	*000.000	-3.233	-2.735	-2.328	-2.454
8	*000.000	*000.000	*000.000	-5.008	-4.673	-3.801	-3.803
9	*000.000	*000.000	*000.000	-5.506	-5.532	-4.514	-4.261
10	-2.093	-3.017	-3.388	-5.121	-4.010	-3.454	-3.275
11	-1.664	-2.269	*000.000	-2.217	-2.351	-1.744	-1.630
12	-2.141	-1.628	-1.432	-1.152	-1.496	-1.265	-1.209
13	-1.982	-1.712	-1.364	-1.185	-1.210	-1.127	-1.067
14	-2.488	-1.606	-1.232	-1.040	-1.043	-.990	-.893
15	-1.052	-2.093	.386	.524	.458	.385	-.115
16	-1.430	-.360	.019	.038	-.037	-.137	-.266
17	-2.790	-1.983	-1.200	-.950	-1.022	-.867	-.846
18	-4.267	-3.009	-2.192	-1.653	-1.809	-1.822	-1.367
19	-5.116	-3.367	-2.557	-1.882	-2.004	-1.534	-1.342
20	-6.144	-3.770	-2.616	-1.882	-1.870	-1.984	-1.507
21	-5.987	-3.542	-2.424	-1.460	-1.607	-1.751	-1.342
22	-4.984	-2.676	-1.719	-1.116	-1.120	-1.469	-1.245
23	-2.617	-.893	-.564	-.488	-.408	-.590	-.826
24	-2.775	-.479	-.107	-.151	-.076	-.221	-.423
25	.593	.011	-1.895	-.248	.198	.706	-.017
26	1.191	1.321	.877	.764	*000.000	.419	.317
27	.911	1.299	1.321	1.176	.848	1.064	.734
28	.376	.804	.980	1.042	1.044	.805	.652
29	.051	.690	.818	1.013	.833	.708	.638
30	.436	1.456	1.435	1.041	1.076	1.052	.086
31	.671	1.383	1.321	1.086	1.140	1.060	.784
32	.493	1.023	1.097	.981	.897	.802	.749
33	.309	.725	.848	.966	.733	.553	.246

$\alpha = 35°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-2.355	-4.167	-6.348	-4.481	-3.346	-1.603	-2.594
2	-3.876	-6.091	-7.758	-6.270	-4.639	-2.955	-3.281
3	-4.098	-6.286	-7.461	-6.178	-4.982	-3.304	-3.461
4	-3.762	-5.573	-6.461	-5.664	-4.475	-3.172	-3.128
5	-3.351	-4.845	-5.122	-4.448	-3.553	-2.846	-2.618
6	*000.000	*000.000	*000.000	-.285	-.209	-.141	-.334
7	*000.000	*000.000	*000.000	-3.448	-2.734	-1.979	-2.083
8	*000.000	*000.000	*000.000	-5.115	-4.678	-3.509	-3.547
9	*000.000	*000.000	*000.000	-6.261	-6.101	-4.553	-4.274
10	-2.243	-3.140	-3.357	-5.161	-3.720	-2.854	-2.688
11	-1.934	-2.546	*000.000	-2.322	-2.393	-1.567	-1.527
12	-2.088	-1.669	-1.381	-1.173	-1.328	-.988	-.942
13	-2.064	-1.683	-1.254	-1.026	-1.063	-.837	-.769
14	-2.912	-1.809	-1.308	-1.048	-1.077	-.962	-.898
15	-1.291	-2.140	.464	.621	.421	.400	.008
16	-1.557	-.396	.030	.048	-.105	-.140	-.206
17	-3.211	-2.123	-1.283	-.976	-1.212	-.833	-.866
18	-4.506	-3.029	-2.236	-1.532	-1.762	-1.717	-1.296
19	-5.764	-3.688	-2.616	-1.926	-2.132	-1.671	-1.350
20	-6.367	-4.079	-2.757	-1.959	-2.060	-2.256	-1.771
21	-5.960	-3.637	-2.368	-1.450	-1.892	-1.826	-1.348
22	-4.550	-2.706	-1.646	-1.097	-1.274	-1.432	-1.226
23	-2.557	-.899	-.640	-.413	-.515	-.582	-.933
24	-2.523	-.290	-.124	-.202	-.239	-.278	-.423
25	.048	-.773	-2.528	-.733	-.412	.349	-.687
26	1.188	1.218	.825	.775	*000.000	.622	.293
27	.901	1.234	1.274	.758	.478	.886	.621
28	.387	.854	.999	1.038	.954	.668	.618
29	-.002	.647	.743	.967	.711	.619	.583
30	.258	1.376	1.350	1.165	1.024	.951	.113
31	.564	1.412	1.371	1.218	1.100	1.026	.670
32	.416	1.037	1.090	1.056	.901	.781	.778
33	.257	.880	.812	.777	.642	.528	.246

$\alpha = 40°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-3.672	-6.445	-9.061	-7.194	-5.327	-3.710	-3.988
2	-4.744	-7.219	-8.885	-7.551	-5.799	-4.184	-4.190
3	-4.642	-7.485	-8.708	-7.271	-5.909	-4.248	-4.111
4	-4.421	-6.677	-7.592	-6.660	-5.200	-3.644	-3.627
5	-3.832	-5.256	-5.550	-5.016	-4.210	-3.073	-3.038
6	*000.000	*000.000	*000.000	-.455	-.353	-.294	-.447
7	*000.000	*000.000	*000.000	-4.057	-3.305	-2.388	-2.519
8	*000.000	*000.000	*000.000	-5.529	-4.978	-3.591	-3.623
9	*000.000	*000.000	*000.000	-5.831	-5.727	-3.872	-3.794
10	-2.589	-3.533	-3.704	-5.064	-3.935	-2.789	-2.678
11	-1.908	-2.492	*000.000	-2.161	-2.249	-1.472	-1.409
12	-2.150	-1.763	-1.410	-1.262	-1.313	-1.000	-.933
13	-2.349	-1.813	-1.364	-1.172	-1.143	-.942	-.875
14	-3.390	-1.958	-1.442	-1.117	-1.143	-.985	-.901
15	-1.449	-2.467	.549	.590	.434	.454	.138
16	-1.842	-.444	.011	.081	-.100	-.084	-.084
17	-3.136	-2.067	-1.330	-.893	-1.063	-.753	-.678
18	-4.988	-3.263	-2.474	-1.664	-1.919	-1.761	-1.285
19	-6.016	-3.736	-2.959	-1.757	-2.166	-1.639	-1.290
20	-5.444	-3.478	-2.396	-1.552	-2.122	-1.823	-1.418
21	-5.134	-3.493	-2.460	-1.335	-2.099	-1.617	-1.291
22	-3.992	-2.287	-1.713	-.986	-1.240	-1.167	-1.089
23	-2.617	-.882	-.860	-.469	-.590	-.553	-.903
24	-2.151	-.295	-.117	-.267	-.167	-.276	-.331
25	-.501	-1.956	-4.046	-2.051	-1.032	-1.255	-1.342
26	1.188	1.112	.642	.786	*000.000	.505	.168
27	1.025	1.404	1.394	1.153	.966	.883	.685
28	.404	.943	1.041	1.077	.921	.668	.656
29	-.036	.697	.865	.864	.703	.617	.596
30	.253	1.574	1.550	1.366	1.139	1.074	.291
31	.468	1.365	1.343	1.202	1.057	.980	.742
32	.396	1.019	1.130	.999	.845	.720	.669
33	.255	.850	.844	.700	.603	.488	.289

$\alpha = 45°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-3.573	-5.985	-7.711	-5.569	-4.594	-3.774	-3.853
2	-4.876	-7.356	-8.439	-6.461	-5.319	-4.274	-4.253
3	-4.957	-7.349	-8.063	-6.691	-5.698	-4.326	-4.270
4	-4.671	-6.763	-7.145	-5.696	-5.185	-3.760	-3.810
5	-3.941	-5.406	-5.220	-4.091	-3.576	-2.853	-2.851
6	*000.000	*000.000	*000.000	-.131	-.236	-.395	-.539
7	*000.000	*000.000	*000.000	-2.660	-2.832	-2.280	-2.408
8	*000.000	*000.000	*000.000	-2.918	-4.069	-3.398	-3.548
9	*000.000	*000.000	*000.000	-2.857	-4.528	-3.730	-3.749
10	-2.424	-3.190	-2.944	-1.388	-2.441	-2.186	-2.216
11	-1.765	-2.216	*000.000	-1.019	-1.220	-1.271	-1.254
12	-1.615	-1.395	-1.131	-.995	-1.134	-.953	-.963
13	-2.049	-1.224	-.993	-.809	-.847	-.758	-.771
14	-2.480	-1.353	-1.046	-1.069	-1.172	-.927	-.909
15	-1.112	-2.169	.573	.546	.265	.402	.155
16	-1.363	-.230	.149	.099	-.161	-.044	.016
17	-2.257	-1.435	-.724	-.978	-1.182	-.619	-.485
18	-3.540	-2.236	-1.647	-1.433	-1.319	-1.369	-1.098
19	-3.954	-2.020	-1.589	-1.348	-1.267	-1.196	-1.203
20	-3.932	-1.930	-1.388	-1.284	-1.284	-1.343	-1.304
21	-3.702	-2.323	-1.354	-1.199	-1.073	-1.377	-1.202
22	-2.731	-1.317	-.772	-.808	-.878	-1.032	-1.186
23	-1.638	-.801	-.662	-.554	-.618	-.534	-.741
24	-.909	-.535	-.381	-.502	-.537	-.508	-.351
25	-.759	-2.077	-3.696	-1.501	-.908	-1.433	-1.451
26	1.159	1.044	.578	.819	*000.000	.522	.076
27	1.012	1.345	1.317	1.094	.837	.777	.624
28	.470	.984	1.114	1.057	.863	.732	.678
29	.029	.710	.851	.999	.679	.641	.610
30	.318	1.276	1.279	.950	.963	.794	.378
31	.529	1.321	1.301	1.167	1.055	.954	.739
32	.400	.949	1.062	.852	.775	.668	.611
33	.333	.609	.798	.668	.520	.502	.289

Table 14. - Pressure coefficients for wing with propeller rotation down at tip, inboard slat and fences, $\delta_f = 60°$.

(a) $C_{T,S} = 0.90$, $q_s = 20.19$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.987	.932	.050	.788	1.102	1.163	.362
2	.980	1.210	.883	.775	.965	1.114	.236
3	.881	1.159	.985	.601	.845	.858	.221
4	.516	.856	.935	.384	.531	.658	-.039
5	.184	.472	.564	.468	.246	.147	-.044
6	*000.000	*000.000	*000.000	.173	.085	.107	.049
7	*000.000	*000.000	*000.000	.184	.247	.315	-.027
8	*000.000	*000.000	*000.000	-.690	-.757	-.518	-.455
9	*000.000	*000.000	*000.000	-1.579	-1.750	-1.417	-.986
10	-.155	-.157	-.236	-1.793	-1.374	-.938	-.671
11	-.314	-.547	*000.000	-1.229	-1.192	-.691	-.526
12	-.617	-.526	-.524	-.584	-.760	-.448	-.412
13	-.304	-.629	-.560	-.718	-.701	-.432	-.489
14	-.342	-.596	-.518	-.653	-.701	-.525	-.494
15	-.137	-1.576	-.013	-.080	-.094	.089	.015
16	-1.056	-1.335	-1.978	-1.438	-1.683	-1.514	-.958
17	-1.481	-1.696	-1.716	-1.935	-2.437	-1.951	-1.355
18	-1.832	-1.920	-1.747	-2.221	-2.677	-2.355	-1.549
19	-1.744	-1.893	-1.436	-1.889	-2.451	-2.289	-1.518
20	-1.246	-.925	-.913	-1.463	-1.842	-1.732	-1.237
21	-.965	-.542	-.395	-.349	-.794	-1.250	-.853
22	-.558	-.338	-.362	-.303	-.425	-.836	-.674
23	-.366	-.326	-.230	-.271	-.271	-.338	-.451
24	-.444	-.228	-.247	-.243	-.242	-.344	-.287
25	-.016	-.464	-1.502	.526	.588	.430	.242
26	-.535	-1.295	-1.522	.079	*000.000	.138	.085
27	-.635	-.784	-.735	.349	.124	.115	.055
28	-.163	-.142	.036	.635	.190	.157	.149
29	-.029	.457	.401	.626	.677	.421	.499
30	-.092	.392	.596	.716	.759	.788	.279
31	.740	.751	.539	.823	1.050	.811	.295
32	.772	1.113	.705	.907	1.036	.886	.594
33	.543	.803	.610	.809	.833	.744	.700

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.034	1.008	.302	.598	1.006	1.162	.597
2	.983	1.190	.849	.571	.866	1.135	.191
3	.766	1.076	.486	.229	.653	.983	.121
4	.447	.757	.463	.222	.402	.653	-.015
5	.083	.323	.512	.090	.044	.154	-.116
6	*000.000	*000.000	*000.000	.251	.103	.186	.088
7	*000.000	*000.000	*000.000	-.208	-.002	.427	-.036
8	*000.000	*000.000	*000.000	-.966	-.971	-.667	-.608
9	*000.000	*000.000	*000.000	-1.792	-1.885	-1.455	-1.003
10	-.226	-.249	-.355	-1.959	-1.536	-1.063	-.751
11	-.343	-.633	*000.000	-1.249	-1.202	-.637	-.470
12	-.637	-.547	-.577	-.592	-.805	-.427	-.426
13	-.343	-.597	-.561	-.689	-.646	-.403	-.378
14	-.430	-.638	-.536	-.698	-.701	-.489	-.395
15	-.184	-1.631	.089	-.081	-.015	.043	.047
16	-1.144	-1.532	-1.135	-1.451	-1.648	-1.430	-.895
17	-1.784	-2.482	-1.701	-1.940	-2.276	-1.808	-1.245
18	-1.867	-2.244	-1.878	-2.321	-2.508	-2.085	-1.497
19	-1.771	-1.977	-1.693	-1.962	-2.326	-2.050	-1.290
20	-1.484	-1.520	-1.344	-1.622	-1.817	-1.690	-1.313
21	-1.050	-.681	-.426	-.735	-1.202	-1.247	-.960
22	-.743	-.398	-.279	-.296	-.288	-.687	-.780
23	-.487	-.284	-.245	-.318	-.219	-.257	-.515
24	-.551	-.249	-.209	-.187	-.199	-.214	-.310
25	.131	-.201	-.993	.656	.757	.513	.576
26	-.350	-.976	-1.115	.082	*000.000	.197	.050
27	-.627	-.699	-.592	.549	.109	.130	-.011
28	-.155	-.141	.025	.633	.782	.179	.183
29	-.041	.417	.446	.581	.678	.726	.475
30	-.004	.483	.558	.711	.752	.824	.293
31	.901	.973	.617	.891	1.038	1.038	.398
32	.907	1.077	.878	.885	1.022	1.063	.990
33	.810	.760	.664	.769	.810	.798	.695

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.033	1.086	.499	.382	1.043	1.229	.337
2	.990	1.228	1.002	.035	.752	1.147	.205
3	.738	1.006	.960	.098	.544	.797	-.028
4	.341	.809	.849	-.094	.187	.373	-.121
5	-.019	.115	.282	-.130	-.078	-.067	-.257
6	*000.000	*000.000	*000.000	.254	.148	.144	-.016
7	*000.000	*000.000	*000.000	-.497	-.303	.124	-.190
8	*000.000	*000.000	*000.000	-1.174	-1.217	-.781	-.683
9	*000.000	*000.000	*000.000	-1.996	-2.242	-1.605	-1.222
10	-.304	-.359	-.422	-2.003	-1.665	-1.147	-.855
11	-.403	-.677	*000.000	-1.222	-1.212	-.674	-.521
12	-.740	-.609	-.673	-.637	-.862	-.494	-.421
13	-.394	-.692	-.666	-.679	-.728	-.467	-.421
14	-.465	-.655	-.610	-.628	-.706	-.472	-.394
15	-.176	-1.630	-.016	-.067	-.045	.062	.028
16	-1.239	-1.547	-1.282	-1.446	-1.661	-1.546	-.880
17	-1.811	-2.666	-1.993	-2.135	-2.289	-1.798	-1.364
18	-2.036	-2.621	-2.054	-2.195	-2.416	-2.232	-1.595
19	-1.940	-2.413	-2.215	-2.050	-2.464	-2.206	-1.430
20	-1.433	-1.373	-1.266	-1.430	-1.885	-1.595	-1.346
21	-1.173	-.653	-.530	-.827	-.956	-1.279	-1.070
22	-.906	-.418	-.349	-.340	-.319	-.641	-.733
23	-.511	-.289	-.292	-.210	-.299	-.260	-.499
24	-.536	-.305	-.259	-.207	-.249	-.266	-.199
25	.154	.045	-.537	.687	.807	.535	.489
26	-.295	-.673	-.825	.151	*000.000	.107	.057
27	-.595	-.545	-.425	.679	.041	.055	.012
28	-.126	-.110	.097	.676	.867	.237	.236
29	-.054	.460	.493	.647	.699	.685	.603
30	-.046	.535	.479	.689	.781	.868	.187
31	.924	1.084	.844	.986	1.039	1.037	.346
32	.835	1.103	.925	.926	1.001	1.019	.932
33	.624	.769	.671	.740	.818	.766	.585

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.138	1.186	.691	.132	.997	1.195	.227
2	.846	1.057	.691	-.316	.474	.756	-.036
3	.726	.915	.860	-.414	.212	.607	.020
4	.334	.530	.483	-.510	-.075	.172	-.197
5	-.109	.064	.104	-.490	-.345	-.200	-.304
6	*000.000	*000.000	*000.000	.218	.175	.038	.035
7	*000.000	*000.000	*000.000	-.673	-.457	-.101	-.294
8	*000.000	*000.000	*000.000	-1.399	-1.400	-.880	-.785
9	*000.000	*000.000	*000.000	-2.051	-2.285	-1.643	-1.265
10	-.375	-.447	-.500	-2.307	-1.770	-1.203	-.801
11	-.416	-.747	*000.000	-1.351	-1.295	-.701	-.625
12	-.754	-.619	-.667	-.655	-.833	-.431	-.380
13	-.458	-.711	-.672	-.700	-.695	-.466	-.367
14	-.514	-.726	-.725	-.721	-.736	-.463	-.415
15	-.151	-1.584	.078	-.100	-.024	.092	.102
16	-1.329	-1.762	-1.418	-1.485	-1.628	-1.347	-.849
17	-1.854	-2.620	-2.018	-2.052	-2.270	-1.859	-1.288
18	-2.031	-2.725	-2.469	-2.038	-2.352	-2.254	-1.468
19	-2.254	-2.648	-2.321	-2.067	-2.446	-2.289	-1.351
20	-1.686	-1.831	-1.582	-1.593	-1.540	-1.663	-1.313
21	-1.406	-.922	-.706	-.824	-.870	-1.104	-.996
22	-1.104	-.386	-.434	-.320	-.407	-.634	-.767
23	-.740	-.299	-.358	-.254	-.277	-.195	-.376
24	-.547	-.292	-.273	-.217	-.198	-.257	-.125
25	.387	.336	-.245	.672	.932	.797	.535
26	-.145	-.374	-.452	.180	*000.000	.043	-.023
27	-.529	-.418	-.429	.811	.047	-.008	.150
28	-.103	-.079	.082	.827	.837	.305	.250
29	-.023	.467	.492	.735	.693	.651	.565
30	.040	.559	.466	.857	.775	.811	.219
31	.958	1.110	.676	.810	1.047	1.121	.531
32	.842	1.075	.808	.876	.964	1.005	.898
33	.591	.794	.670	.775	.821	.766	.592

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.112	1.227	.748	-.058	.855	.980	.015
2	.746	.989	.824	-.628	.277	.628	-.265
3	.543	.718	.779	-.747	-.018	.366	-.224
4	.189	.318	.497	-.755	-.305	-.096	-.429
5	-.201	-.096	.065	-.700	-.501	-.333	-.433
6	*000.000	*000.000	*000.000	.198	.102	.009	-.055
7	*000.000	*000.000	*000.000	-.793	-.540	-.295	-.421
8	*000.000	*000.000	*000.000	-1.648	-1.548	-.933	-.803
9	*000.000	*000.000	*000.000	-2.320	-2.474	-1.713	-1.217
10	-.365	-.510	-.664	-2.318	-1.781	-1.201	-.849
11	-.451	-.794	*000.000	-1.333	-1.272	-.710	-.573
12	-.785	-.635	-.669	-.679	-.818	-.435	-.394
13	-.454	-.729	-.642	-.698	-.670	-.468	-.412
14	-.587	-.730	-.614	-.682	-.705	-.412	-.321
15	-.173	-1.619	-.066	-.118	-.007	.109	.070
16	-1.355	-1.479	-1.406	-1.450	-1.494	-1.527	-.884
17	-2.113	-2.928	-2.328	-1.959	-1.939	-1.828	-1.210
18	-2.232	-2.990	-2.592	-2.003	-2.230	-2.241	-1.491
19	-2.280	-2.823	-2.436	-1.976	-2.276	-1.895	-1.337
20	-1.808	-1.925	-1.320	-1.709	-1.965	-1.565	-1.205
21	-1.571	-1.179	-.531	-.849	-1.069	-1.123	-.945
22	-1.287	-.488	-.445	-.486	-.601	-.633	-.748
23	-.760	-.356	-.272	-.228	-.192	-.227	-.439
24	-.612	-.325	-.345	-.240	-.198	-.202	-.156
25	.515	.616	.113	.633	1.024	.734	.258
26	.012	-.059	-.241	.158	*000.000	-.004	-.067
27	-.426	-.257	-.196	.868	.312	-.063	-.008
28	-.141	.010	.185	.888	.817	.514	.201
29	.072	.467	.503	.733	.655	.584	.456
30	.187	.675	.627	.800	.742	.777	.265
31	.942	1.124	.818	1.017	1.010	.992	.346
32	.848	1.074	.866	.905	.957	.964	.739
33	.533	.808	.669	.805	.791	.699	.614

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.097	1.228	.868	-.276	.767	1.083	-.172
2	.625	.806	.722	-.919	.117	.436	-.516
3	.433	.583	.619	-1.077	-.232	.128	-.598
4	-.011	.165	.280	-1.012	-.435	-.268	-.604
5	-.371	-.342	-.154	-.974	-.709	-.513	-.700
6	*000.000	*000.000	*000.000	.170	.165	-.009	-.001
7	*000.000	*000.000	*000.000	-1.051	-.742	-.267	-.340
8	*000.000	*000.000	*000.000	-1.856	-1.772	-1.129	-1.010
9	*000.000	*000.000	*000.000	-2.471	-2.626	-1.912	-1.258
10	-.510	-.645	-.844	-2.485	-1.861	-1.223	-.889
11	-.588	-.925	*000.000	-1.414	-1.248	-.672	-.501
12	-.912	-.719	-.717	-.682	-.772	-.405	-.333
13	-.635	-.842	-.778	-.668	-.658	-.492	-.452
14	-.717	-.870	-.807	-.692	-.667	-.468	-.335
15	-.373	-1.600	-.084	-.065	-.019	.119	.073
16	-1.615	-2.080	-1.710	-1.499	-1.758	-1.382	-.801
17	-2.427	-3.331	-2.494	-1.776	-2.242	-1.736	-1.175
18	-2.676	-3.308	-2.809	-1.979	-2.625	-1.948	-1.275
19	-2.707	-3.137	-2.512	-1.900	-2.706	-2.270	-1.174
20	-2.344	-2.679	-1.802	-1.604	-2.237	-1.766	-1.316
21	-1.999	-1.364	-1.108	-1.043	-1.543	-1.094	-.920
22	-1.407	-.638	-.816	-.715	-.701	-.701	-.859
23	-.841	-.400	-.272	-.202	-.146	-.237	-.459
24	-.715	-.405	-.459	-.206	-.152	-.187	-.233
25	.611	.782	.250	.832	1.042	.701	.034
26	.133	.121	-.030	.204	*000.000	-.053	.016
27	-.417	-.117	-.084	.992	.353	-.078	.124
28	-.166	.064	.103	.894	.878	.588	.308
29	-.004	.484	.606	.835	.729	.619	.559
30	.137	.742	.605	.815	.745	.798	.299
31	.901	1.165	.862	.974	1.013	1.008	.382
32	.744	1.044	.876	.955	.993	.957	.926
33	.480	.774	.717	.829	.817	.722	.640

Table 14. - Continued.
(a) $C_{T,S} = 0.90$, $q_s = 20.19$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.068	1.215	.774	-.345	.644	.953	-.424
2	.585	.715	.805	-1.099	-.108	.432	-.685
3	.303	.432	.559	-1.176	-.508	-.071	-.804
4	-.091	.002	.217	-1.299	-.735	-.391	-.856
5	-.443	-.476	-.178	-1.227	-.906	-.650	-.824
6	*000.000	*000.000	*000.000	.146	.179	.008	-.087
7	*000.000	*000.000	*000.000	-1.080	-.872	-.370	-.543
8	*000.000	*000.000	*000.000	-1.983	-1.975	-1.225	-1.067
9	*000.000	*000.000	*000.000	-2.609	-2.778	-1.702	-1.048
10	-.543	-.752	-.825	-2.526	-1.986	-1.115	-.777
11	-.611	-.977	*000.000	-1.296	-1.344	-.655	-.567
12	-.966	-.768	-.718	-.707	-.841	-.487	-.466
13	-.706	-.882	-.788	-.701	-.755	-.484	-.388
14	-.901	-.985	-.755	-.798	-.851	-.503	-.391
15	-.413	-1.577	-.033	-.068	-.012	.082	-.068
16	-1.961	-2.287	-1.620	-1.439	-1.686	-1.288	-.870
17	-2.883	-3.571	-2.675	-1.736	-2.519	-1.564	-1.097
18	-3.066	-3.738	-2.831	-1.820	-2.333	-1.810	-1.216
19	-3.084	-3.442	-2.410	-1.701	-2.651	-1.939	-1.314
20	-2.594	-2.532	-1.733	-1.365	-2.163	-1.400	-1.165
21	-2.124	-1.510	-.796	-1.056	-1.164	-1.039	-.962
22	-1.432	-.657	-.541	-.643	-.914	-.652	-.751
23	-.859	-.440	-.305	-.310	-.216	-.272	-.384
24	-.799	-.494	-.350	-.169	-.067	-.078	-.138
25	.617	.882	.583	.762	.995	.950	.061
26	.179	.435	.526	.230	*000.000	-.062	-.074
27	-.362	-.038	.128	1.010	.544	-.038	.199
28	-.136	.072	.318	.828	.752	.601	.207
29	.023	.493	.654	.830	.669	.633	.508
30	.139	.748	.681	.862	.774	.824	.232
31	.835	1.123	.914	1.009	.947	.974	.355
32	.770	1.068	.884	1.005	.908	.909	.817
33	.473	.721	.732	.820	.750	.698	.474

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.955	1.052	.669	-.405	.472	.657	-.554
2	.405	.480	.368	-1.260	-.288	-.089	-.978
3	.171	.170	-.022	-1.475	-.664	-.387	-.844
4	-.231	-.231	-.366	-1.606	-.957	-.674	-.880
5	-.536	-.633	-.711	-1.407	-1.007	-.797	-.793
6	*000.000	*000.000	*000.000	.146	.256	-.062	-.223
7	*000.000	*000.000	*000.000	-1.281	-1.066	-.541	-.726
8	*000.000	*000.000	*000.000	-2.111	-2.101	-1.192	-1.074
9	*000.000	*000.000	*000.000	-2.581	-2.965	-1.905	-1.268
10	-.617	-.880	-1.189	-2.394	-2.112	-1.222	-.804
11	-.636	-1.062	*000.000	-1.247	-1.439	-.780	-.572
12	-1.035	-.883	-.829	-.700	-.859	-.500	-.469
13	-.823	-.960	-.947	-.690	-.696	-.481	-.315
14	-.940	-.992	-1.021	-.657	-.685	-.486	-.394
15	-.644	-1.521	-.251	-.086	-.098	.088	.016
16	-2.080	-2.403	-1.759	-1.337	-1.662	-1.352	-.813
17	-3.015	-3.669	-2.887	-1.830	-2.445	-1.494	-.871
18	-3.396	-3.747	-3.107	-1.716	-2.658	-1.753	-1.194
19	-3.421	-3.627	-3.190	-1.691	-2.612	-1.820	-1.161
20	-2.947	-2.758	-2.117	-1.455	-2.083	-1.154	-.909
21	-2.456	-1.734	-1.242	-1.031	-1.356	-1.054	-.926
22	-1.588	-.976	-.679	-.716	-.703	-.625	-.661
23	-.935	-.614	-.563	-.383	-.172	-.220	-.394
24	-.830	-.548	-.554	-.181	-.025	-.081	-.084
25	.742	1.029	.844	.773	1.080	.729	.222
26	.271	.476	.525	.294	*000.000	-.151	-.018
27	-.347	.066	.116	1.017	.570	-.096	.207
28	-.158	.051	.126	.948	.772	.478	.166
29	-.054	.437	.579	.733	.681	.539	.382
30	.097	.733	.648	.823	.737	.750	.262
31	.800	1.159	.905	1.047	.995	1.011	.359
32	.737	1.039	1.031	1.028	.940	.950	.870
33	.446	.687	.587	.786	.750	.604	.529

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.928	1.041	.736	-.601	.305	.395	-.964
2	.345	.358	.118	-1.621	-.576	-.263	-1.296
3	.057	.035	-.178	-1.592	-.862	-.685	-1.238
4	-.362	-.393	-.450	-1.655	-1.090	-.792	-1.013
5	-.641	-.829	-.835	-1.537	-1.216	-1.046	-.899
6	*000.000	*000.000	*000.000	.116	.194	-.106	-.209
7	*000.000	*000.000	*000.000	-1.382	-1.140	-.680	-.826
8	*000.000	*000.000	*000.000	-2.279	-2.177	-1.232	-.961
9	*000.000	*000.000	*000.000	-2.573	-2.858	-1.721	-1.297
10	-.800	-1.057	-1.189	-2.629	-2.343	-1.507	-1.123
11	-.704	-1.100	*000.000	-1.254	-1.385	-.691	-.529
12	-1.200	-.962	-.842	-.739	-.886	-.493	-.483
13	-.947	-1.025	-.880	-.700	-.733	-.564	-.436
14	-1.244	-1.170	-.954	-.735	-.853	-.514	-.363
15	-.680	-1.468	-.262	-.096	-.068	-.019	-.057
16	-2.395	-2.504	-1.843	-1.399	-1.758	-1.291	-.728
17	-3.295	-3.601	-2.675	-1.636	-2.452	-1.400	-.988
18	-3.768	-3.905	-2.872	-1.873	-2.510	-1.775	-1.358
19	-4.070	-4.188	-3.101	-1.768	-2.706	-1.718	-1.284
20	-3.175	-2.940	-2.204	-1.248	-1.851	-1.287	-1.006
21	-2.685	-2.114	-1.400	-1.000	-1.460	-.943	-.823
22	-1.674	-.980	-.432	-.817	-.579	-.436	-.542
23	-1.094	-.650	-.316	-.246	-.173	-.176	-.458
24	-.989	-.769	-.450	-.104	-.080	-.141	-.180
25	.709	1.093	.943	.697	1.019	.675	-.336
26	.291	.711	.851	.270	*000.000	-.140	0.
27	-.334	.129	.430	1.023	.596	-.058	.287
28	-.178	.111	.315	.845	.746	.404	.144
29	-.079	.482	.689	.733	.633	.534	.394
30	.098	.759	.734	.807	.744	.761	.338
31	.800	1.164	1.091	1.042	.969	1.056	.276
32	.732	1.057	1.129	1.001	.942	.895	.845
33	.433	.748	.800	.882	.766	.655	.521

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.961	.992	.561	-.687	.343	.342	-.984
2	.291	.197	-.115	-1.651	-.610	-.671	-1.517
3	.023	-.118	-.313	-1.780	-.930	-.649	-1.194
4	-.441	-.564	-.598	-1.935	-1.281	-1.080	-1.251
5	-.758	-.927	-.817	-1.642	-1.303	-1.134	-1.049
6	*000.000	*000.000	*000.000	.128	.232	-.082	-.313
7	*000.000	*000.000	*000.000	-1.477	-1.261	-.741	-.871
8	*000.000	*000.000	*000.000	-2.327	-2.394	-1.239	-1.059
9	*000.000	*000.000	*000.000	-2.595	-2.972	-1.799	-1.326
10	-.739	-1.060	-1.270	-2.311	-2.120	-1.118	-.888
11	-.825	-1.255	*000.000	-1.300	-1.506	-.840	-.818
12	-1.234	-1.013	-.965	-.735	-.720	-.524	-.500
13	-.889	-1.117	-.870	-.671	-.767	-.432	-.353
14	-1.303	-1.219	-1.017	-.669	-.766	-.373	-.361
15	-.795	-1.477	-.221	-.023	-.047	.073	-.040
16	-2.581	-2.691	-2.101	-1.345	-1.634	-1.153	-.777
17	-3.782	-4.220	-3.244	-1.746	-2.337	-1.350	-1.141
18	-4.038	-4.216	-3.481	-1.810	-2.489	-1.519	-.968
19	-4.083	-4.062	-3.287	-1.921	-2.487	-1.591	-1.291
20	-3.642	-3.671	-2.515	-1.537	-1.532	-.820	-.848
21	-2.639	-2.460	-1.425	-1.141	-1.406	-1.166	-.938
22	-1.628	-1.185	-.695	-.731	-.817	-.703	-.935
23	-1.075	-.776	-.458	-.412	-.219	-.225	-.451
24	-.996	-.842	-.377	-.108	-.066	-.107	-.183
25	.713	1.150	.954	.659	1.026	.439	-.443
26	.227	.732	.894	.188	*000.000	-.077	-.053
27	-.375	.159	.336	1.033	.634	-.039	.070
28	-.209	.115	.334	.814	.730	.249	.072
29	-.108	.479	.594	.745	.649	.471	.276
30	.055	.810	.623	.846	.761	.743	.229
31	.778	1.179	1.087	1.063	.986	1.011	.094
32	.666	1.069	1.109	.991	.923	.892	.738
33	.389	.751	.865	.851	.811	.623	.332

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.862	.872	.412	-.661	.339	.258	-.919
2	.179	.060	-.238	-1.690	-.642	-.488	-1.436
3	-.108	-.211	-.374	-1.844	-.904	-.777	-1.223
4	-.559	-.714	-.929	-1.968	-1.340	-1.131	-1.128
5	-.873	-1.068	-1.172	-1.728	-1.312	-1.080	-1.113
6	*000.000	*000.000	*000.000	.101	.203	.062	-.113
7	*000.000	*000.000	*000.000	-1.345	-1.052	-.441	-.691
8	*000.000	*000.000	*000.000	-2.227	-2.031	-.994	-.841
9	*000.000	*000.000	*000.000	-2.594	-2.918	-1.604	-1.227
10	-.832	-1.097	-1.270	-2.144	-1.949	-1.018	-.736
11	-.883	-1.222	*000.000	-1.186	-1.200	-.678	-.580
12	-1.251	-1.064	-.956	-.720	-.762	-.442	-.420
13	-1.053	-1.101	-.892	-.606	-.657	-.318	-.268
14	-1.370	-1.302	-1.045	-.656	-.641	-.401	-.380
15	-.865	-1.430	-.307	-.054	-.042	.042	-.102
16	-2.557	-2.680	-2.082	-1.397	-1.682	-1.001	-.660
17	-3.607	-4.253	-3.120	-1.538	-2.182	-1.134	-.828
18	-4.129	-4.558	-3.684	-1.844	-2.355	-1.596	-1.227
19	-4.056	-4.439	-3.505	-1.568	-2.242	-1.774	-1.265
20	-3.445	-3.637	-2.647	-1.413	-1.588	-.760	-.739
21	-2.258	-2.465	-1.823	-1.105	-1.329	-.773	-.769
22	-1.425	-1.568	-1.162	-.740	-.648	-.466	-.705
23	-1.081	-.800	-.399	-.323	-.273	-.162	-.323
24	-1.031	-.892	-.435	-.167	-.095	-.134	-.184
25	.731	1.104	.903	.691	.992	.497	-.621
26	.307	.834	.917	.164	*000.000	.006	-.040
27	-.342	.230	.393	1.008	.630	.009	.344
28	-.208	.129	.316	.911	.708	.213	.059
29	-.162	.469	.577	.710	.638	.552	.267
30	.041	.809	.699	.786	.731	.742	.205
31	.667	1.165	1.143	1.038	.900	.945	.166
32	.598	1.046	1.063	.888	.855	.884	.739
33	.334	.717	.838	.755	.680	.535	.284

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.858	.775	.314	-.541	.322	.129	-1.448
2	.065	-.117	-.438	-1.547	-.629	-.628	-1.201
3	-.209	-.457	-.626	-1.688	-.994	-.589	-1.117
4	-.702	-.862	-.945	-1.834	-1.279	-1.284	-1.392
5	-.916	-1.180	-1.128	-1.658	-1.299	-1.101	-.854
6	*000.000	*000.000	*000.000	.070	.169	-.022	-.207
7	*000.000	*000.000	*000.000	-1.460	-1.110	-.689	-.711
8	*000.000	*000.000	*000.000	-2.117	-2.016	-.971	-.887
9	*000.000	*000.000	*000.000	-2.459	-2.723	-1.404	-1.132
10	-.893	-1.182	-1.283	-2.180	-2.104	-.810	-.698
11	-.925	-1.292	*000.000	-1.126	-1.236	-.463	-.458
12	-1.172	-1.025	-.843	-.603	-.718	-.327	-.395
13	-1.209	-1.222	-.989	-.652	-.657	-.353	-.330
14	-1.449	-1.370	-1.075	-.589	-.625	-.365	-.360
15	-.917	-1.427	-.305	-.119	-.048	.150	-.077
16	-2.621	-2.968	-2.192	-1.364	-1.486	-.585	-.464
17	-3.771	-4.505	-3.215	-1.492	-1.982	-.933	-.774
18	-4.306	-4.880	-3.579	-1.675	-2.289	-1.012	-.878
19	-4.066	-4.804	-3.696	-1.633	-2.273	-1.125	-1.234
20	-3.248	-4.090	-3.097	-1.330	-1.733	-1.002	-.936
21	-2.277	-2.740	-2.040	-.938	-1.310	-.830	-.837
22	-1.378	-1.839	-1.128	-.732	-.558	-.470	-.770
23	-.994	-.783	-.400	-.254	-.139	-.098	-.178
24	-.977	-.920	-.423	-.124	-.128	-.070	-.157
25	.706	1.200	1.017	.710	.942	.473	-.440
26	.274	.902	.931	.183	*000.000	-.041	-.039
27	-.377	.258	.453	.995	.618	.038	.303
28	-.274	.119	.250	.755	.704	.237	.137
29	-.184	.428	.522	.669	.589	.456	.293
30	.014	.768	.693	.778	.681	.730	.104
31	.564	1.132	1.122	1.010	.928	.976	.151
32	.569	1.038	1.053	.898	.902	.961	.597
33	.299	.701	.816	.646	.651	.593	.261

Table 14. - Continued.

(a) $C_{T,s} = 0.90$, $q_s = 20.19$

$\alpha = 65°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.837	.820	.314	-.757	.142	-.398	-1.283
2	.014	-.134	-.595	-1.665	-.696	-.834	-1.694
3	-.205	-.449	-.723	-1.536	-.822	-.717	-1.594
4	-.640	-.882	-.972	-1.800	-1.336	-1.133	-1.172
5	-1.026	-1.239	-1.160	-1.688	-1.260	-.922	-.716
6	*000.000	*000.000	*000.000	.011	.041	-.406	-.246
7	*000.000	*000.000	*000.000	-1.492	-1.251	-.437	-.502
8	*000.000	*000.000	*000.000	-2.213	-2.199	-.521	-.569
9	*000.000	*000.000	*000.000	-2.588	-2.970	-.520	-.580
10	-1.014	-1.232	-1.253	-2.121	-1.785	-.887	-.621
11	-.996	-1.325	*000.000	-1.124	-1.329	-.468	-.317
12	-1.094	-1.063	-.842	-.641	-.734	-.278	-.338
13	-1.216	-1.234	-.869	-.604	-.581	-.201	-.322
14	-1.494	-1.436	-1.094	-.726	-.575	-.207	-.149
15	-.901	-1.360	-.258	-.089	-.042	.046	-.100
16	-2.585	-3.023	-2.266	-1.218	-1.111	-.431	-.287
17	-3.782	-4.490	-3.194	-1.520	-1.849	-.585	-.496
18	-3.909	-4.724	-3.748	-1.559	-2.045	-1.083	-.847
19	-3.640	-4.615	-3.675	-1.568	-1.423	-1.121	-.390
20	-3.163	-3.873	-2.726	-1.064	-1.503	-.783	-.590
21	-1.910	-2.918	-2.407	-1.090	-.964	-.640	-.593
22	-1.184	-1.658	-1.252	-.732	-.576	-.380	-.330
23	-1.007	-.855	-.441	-.366	-.183	-.339	-.375
24	-.975	-.924	-.499	-.240	-.198	-.261	-.231
25	.665	1.207	1.009	.755	1.115	-.552	-.648
26	.332	.493	1.025	.091	*000.000	-.158	-.145
27	-.367	.241	.441	.960	.613	-.009	.079
28	-.295	.078	.248	.800	.649	.077	.049
29	-.246	.413	.522	.640	.532	.280	.246
30	-.014	.750	.663	.649	.681	.571	.214
31	.628	1.151	1.051	.924	.840	.804	.033
32	.564	1.071	1.089	.810	.842	.860	.545
33	.371	.712	.820	.653	.603	.476	.369

$\alpha = 70°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.713	.699	.014	-.470	.408	-.162	-1.244
2	-.115	-.268	-.772	-1.712	-.869	-.620	-1.324
3	-.392	-.651	-.961	-1.909	-1.002	-.778	-1.056
4	-.871	-1.034	-1.009	-1.872	-1.152	-.489	-.825
5	-1.091	-1.366	-1.232	-1.379	-.966	-.773	-.720
6	*000.000	*000.000	*000.000	.037	.082	-.103	-.187
7	*000.000	*000.000	*000.000	-1.341	-1.102	-.277	-.352
8	*000.000	*000.000	*000.000	-2.307	-2.171	-.354	-.539
9	*000.000	*000.000	*000.000	-2.373	-2.554	-.255	-.320
10	-1.111	-1.291	-1.328	-1.894	-1.990	-.174	-.292
11	-1.135	-1.375	*000.000	-1.069	-1.175	-.430	-.371
12	-1.179	-1.102	-.861	-.575	-.508	-.087	-.227
13	-1.220	-1.210	-.847	-.527	-.419	-.052	-.098
14	-1.443	-1.359	-.934	-.614	-.543	-.052	-.263
15	-.841	-1.349	-.157	-.085	-.044	.276	-.165
16	-2.633	-3.049	-2.214	-1.110	-.959	-.316	-.168
17	-3.297	-4.223	-3.042	-1.543	-1.601	-.437	-.495
18	-3.949	-4.712	-3.636	-1.544	-1.565	-.492	-.384
19	-3.793	-4.921	-3.676	-1.271	-1.301	-.323	-.471
20	-3.081	-3.836	-2.652	-1.187	-1.162	-.352	-.330
21	-1.945	-2.973	-2.278	-.797	-.885	-.238	-.240
22	-1.192	-1.949	-1.447	-.528	-.534	-.251	-.199
23	-.932	-.710	-.360	-.183	-.112	-.216	-.151
24	-.927	-.928	-.447	-.152	-.095	-.143	-.085
25	.553	1.217	.783	.747	.963	.179	-.227
26	.194	.975	1.026	.045	*000.000	-.173	-.073
27	-.380	.285	.469	.971	.613	-.032	.188
28	-.274	.136	.277	.798	.593	.121	-.043
29	-.277	.381	.524	.634	.489	.277	.177
30	-.016	.415	.713	.714	.640	.601	.059
31	.561	1.159	1.073	.945	.828	.727	.124
32	.525	1.053	1.045	.786	.792	.776	.479
33	.199	.712	.814	.530	.613	.448	.186

$\alpha = 75°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.630	.660	.103	-.338	.330	-.735	-.936
2	-.145	-.213	-.563	-1.444	-.623	-.587	-1.170
3	-.505	-.612	-.868	-1.727	-1.165	-.555	-.786
4	-.993	-1.038	-1.131	-1.658	-1.007	-.631	-.857
5	-1.189	-1.378	-1.234	-1.491	-1.107	-.600	-.716
6	*000.000	*000.000	*000.000	.002	-.007	-.276	-.117
7	*000.000	*000.000	*000.000	-1.229	-.838	-.239	-.298
8	*000.000	*000.000	*000.000	-2.149	-2.166	-.417	-.510
9	*000.000	*000.000	*000.000	-2.386	-2.712	-.267	-.380
10	-1.208	-1.272	-1.257	-1.908	-1.767	-.278	-.260
11	-1.134	-1.325	*000.000	-.991	-1.021	-.282	-.267
12	-1.119	-1.102	-.827	-.542	-.513	-.154	-.250
13	-1.107	-1.117	-.770	-.471	-.439	-.201	-.282
14	-1.335	-1.327	-.909	-.529	-.451	-.106	-.130
15	-.853	-1.372	-.214	-.055	-.100	.156	-.013
16	-2.465	-2.993	-2.117	-1.073	-.997	-.423	-.255
17	-3.498	-4.304	-2.816	-1.256	-1.165	-.451	-.372
18	-3.480	-4.511	-3.479	-1.294	-1.524	-.439	-.416
19	-3.800	-4.757	-3.565	-1.148	-1.199	-.411	-.358
20	-2.470	-3.645	-2.821	-1.192	-1.051	-.485	-.352
21	-2.158	-2.857	-1.897	-.805	-.815	-.452	-.283
22	-.902	-1.549	-1.343	-.683	-.548	-.388	-.340
23	-.917	-.802	-.464	-.264	-.188	-.271	-.222
24	-.875	-.742	-.211	-.159	-.059	-.066	-.113
25	.608	1.190	.844	.652	.912	-.389	-.249
26	.222	.936	.962	.051	*000.000	-.049	-.174
27	-.497	.270	.489	.927	.661	-.039	.337
28	-.333	.076	.240	.904	.563	-.038	.005
29	-.272	.369	.482	.570	.426	.277	.102
30	-.083	.755	.649	.539	.553	.566	-.085
31	.543	1.155	1.062	.879	.779	.637	-.022
32	.508	.990	1.000	.687	.722	.714	.351
33	.325	.759	.871	.445	.556	.356	.129

$\alpha = 80°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.517	.638	-.001	-.489	.275	-.353	-.929
2	-.322	-.270	-.709	-1.500	-.731	-.414	-.752
3	-.565	-.583	-.609	-1.377	-.899	-.738	-.912
4	-.963	-1.054	-1.053	-1.599	-1.042	-.442	-.788
5	-1.382	-1.455	-1.156	-1.604	-1.388	-.228	-.509
6	*000.000	*000.000	*000.000	-.057	.007	-.117	-.274
7	*000.000	*000.000	*000.000	-1.311	-1.169	-.290	-.448
8	*000.000	*000.000	*000.000	-2.019	-2.044	-.227	-.581
9	*000.000	*000.000	*000.000	-2.287	-2.498	-.121	-.244
10	-1.239	-1.284	-1.237	-1.673	-1.580	-.191	-.322
11	-1.181	-1.307	*000.000	-.813	-.754	-.137	-.303
12	-1.093	-1.101	-.774	-.492	-.431	.035	-.279
13	-1.135	-1.165	-.821	-.471	-.433	-.053	-.216
14	-1.298	-1.297	-.831	-.477	-.400	-.067	-.261
15	-.693	-1.391	-.251	-.040	-.027	.268	-.096
16	-2.342	-2.744	-1.686	-.995	-.937	-.308	-.340
17	-2.916	-4.020	-3.031	-1.170	-1.178	-.239	-.259
18	-3.517	-4.405	-3.042	-1.120	-1.236	-.379	-.271
19	-3.574	-4.285	-2.910	-1.448	-1.282	-.415	-.299
20	-2.299	-3.343	-2.368	-1.081	-1.022	-.343	-.360
21	-2.066	-2.714	-2.052	-.929	-.919	-.365	-.419
22	-1.223	-1.491	-1.341	-.445	-.412	-.141	-.133
23	-1.015	-.762	-.423	-.207	-.102	-.179	-.371
24	-.921	-.582	-.281	-.186	-.055	-.036	-.070
25	.571	1.161	.687	.748	.950	-.587	-.032
26	.166	.882	.930	-.003	*000.000	-.195	.011
27	-.504	.230	.475	.910	.474	-.049	.239
28	-.378	.057	.233	.639	.569	.041	.010
29	-.430	.329	.456	.557	.399	.271	-.018
30	-.139	.745	.634	.639	.507	.578	-.007
31	.416	1.127	.997	.744	.749	.586	-.080
32	.416	.969	.975	.611	.738	.745	.264
33	.202	.657	.781	.446	.546	.454	.214

Table 14. - Continued.

(b) $C_{T,S} = 0.80$, $q_s = 19.99$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.127	1.129	.429	.606	1.225	1.142	.828
2	.963	1.092	.725	.482	.842	.911	.544
3	.838	1.048	.812	.494	.782	.850	.480
4	.484	.700	.617	.161	.394	.498	.240
5	.060	.180	.221	.070	.084	.182	.008
6	.000,000	.000,000	.000,000	.187	.137	.143	.034
7	.000,000	.000,000	.000,000	.016	.073	.248	.052
8	.000,000	.000,000	.000,000	-.924	-.896	-.587	-.594
9	.000,000	.000,000	.000,000	-1.775	-1.941	-1.562	-1.283
10	-.297	-.366	-.523	-2.166	-1.699	-1.301	-1.016
11	-.497	-.729	.000,000	-1.350	-1.317	-.882	-.766
12	-.719	-.646	-.665	-.679	-.918	-.588	-.587
13	-.379	-.651	-.640	-.684	-.769	-.557	-.530
14	-.496	-.668	-.668	-.739	-.823	-.628	-.517
15	-.108	-1.249	.057	-.084	-.115	-.012	.002
16	-1.365	-1.492	-1.137	-1.685	-1.678	-1.640	-1.025
17	-2.099	-2.436	-1.803	-2.219	-2.401	-1.986	-1.478
18	-2.430	-2.650	-1.832	-2.358	-2.661	-2.454	-1.695
19	-2.314	-2.286	-1.741	-2.427	-2.653	-2.441	-1.589
20	-1.808	-1.350	-1.067	-1.793	-1.496	-1.794	-1.343
21	-1.396	-.668	-.588	-.787	-.696	-1.194	-.901
22	-.907	-.379	-.402	-.400	-.393	-.490	-.573
23	-.611	-.298	-.310	-.270	-.232	-.316	-.293
24	-.627	-.268	-.313	-.297	-.250	-.281	-.445
25	.190	-.017	-.552	.569	.693	.558	.513
26	-.555	-.852	-.698	.018	.000,000	.105	.059
27	-.649	-.606	-.400	.446	.169	.088	-.053
28	-.183	-.128	.088	.652	.354	.134	.301
29	.140	.473	.373	.631	.688	.630	.482
30	.065	.467	.486	.715	.758	.813	.092
31	.964	1.084	.548	.917	1.056	.955	.307
32	.879	1.014	.549	.845	1.007	.977	.916
33	.582	.736	.369	.707	.828	.775	.789

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.178	1.165	.583	.391	1.122	1.161	.751
2	.909	1.095	.642	.159	.759	.844	.485
3	.642	.857	.660	-.059	.461	.608	.202
4	.271	.387	.351	-.143	.130	.265	.004
5	-.101	-.045	.024	-.285	-.210	-.082	-.202
6	.000,000	.000,000	.000,000	.183	.127	.094	-.002
7	.000,000	.000,000	.000,000	-.556	-.388	-.242	-.310
8	.000,000	.000,000	.000,000	-1.335	-1.321	-.972	-.991
9	.000,000	.000,000	.000,000	-2.141	-2.250	-1.807	-1.533
10	-.377	-.483	-.646	-2.326	-1.855	-1.481	-1.192
11	-.543	-.852	.000,000	-1.404	-1.480	-1.031	-.928
12	-.920	-.714	-.714	-.702	-1.007	-.656	-.595
13	-.510	-.761	-.723	-.764	-.836	-.638	-.613
14	-.623	-.757	-.674	-.739	-.812	-.643	-.571
15	-.189	-1.295	.008	-.158	-.060	-.076	-.019
16	-1.634	-1.827	-1.413	-1.836	-1.978	-1.700	-1.211
17	-2.359	-2.621	-1.704	-2.087	-2.348	-2.134	-1.588
18	-2.697	-2.764	-2.088	-2.236	-2.611	-2.771	-1.917
19	-2.545	-2.414	-1.804	-2.261	-2.232	-2.534	-1.708
20	-2.176	-1.800	-1.070	-1.867	-1.227	-1.731	-1.398
21	-1.599	-.765	-.569	-1.133	-.691	-1.065	-1.012
22	-1.117	-.483	-.365	-.359	-.341	-.536	-.705
23	-.739	-.334	-.315	-.329	-.203	-.252	-.348
24	-.627	-.301	-.355	-.300	-.238	-.238	-.311
25	.434	.360	-.080	.692	.903	.713	.593
26	-.302	-.405	-.330	.116	.000,000	.047	.047
27	-.511	-.411	-.139	.591	.166	.048	-.069
28	-.185	-.054	.180	.671	.903	.297	.330
29	.120	.500	.565	.688	.742	.660	.601
30	.164	.540	.556	.787	.806	.795	.066
31	.945	1.081	.662	1.034	1.089	1.087	.549
32	.911	1.086	.810	.981	1.053	1.049	.808
33	.591	.776	.589	.761	.845	.753	.475

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.171	1.242	.696	.062	.949	1.100	.797
2	.794	.926	.522	-.547	.308	.540	.248
3	.537	.654	.340	-.573	-.052	.241	.103
4	.149	.211	.285	-.735	-.240	.022	-.236
5	-.279	-.191	-.085	-.668	-.484	-.346	-.386
6	.000,000	.000,000	.000,000	.188	.076	.022	-.057
7	.000,000	.000,000	.000,000	-.871	-.672	-.448	-.487
8	.000,000	.000,000	.000,000	-1.761	-1.682	-1.237	-1.194
9	.000,000	.000,000	.000,000	-2.383	-2.584	-2.072	-1.820
10	-.512	-.610	-.703	-2.441	-1.968	-1.509	-1.257
11	-.585	-.929	.000,000	-1.461	-1.530	-1.031	-.867
12	-.947	-.769	-.808	-.715	-1.042	-.711	-.652
13	-.566	-.774	-.736	-.753	-.838	-.614	-.583
14	-.755	-.814	-.735	-.741	-.806	-.642	-.556
15	-.308	-1.341	.001	-.113	-.079	-.008	-.011
16	-1.860	-1.981	-1.669	-1.745	-2.009	-1.804	-1.172
17	-2.606	-2.821	-2.221	-2.216	-2.651	-2.083	-1.555
18	-2.920	-3.106	-2.555	-2.208	-2.772	-2.549	-1.820
19	-2.906	-2.834	-2.417	-2.289	-2.256	-2.654	-1.752
20	-2.498	-2.051	-1.570	-1.661	-1.684	-1.785	-1.560
21	-1.900	-.866	-.711	-1.082	-.969	-.969	-.899
22	-1.368	-.477	-.469	-.696	-.546	-.444	-.617
23	-.792	-.417	-.366	-.202	-.325	-.282	-.289
24	-.682	-.368	-.388	-.232	-.334	-.279	-.302
25	.671	.662	.142	.625	1.018	.878	.608
26	-.005	-.034	.247	.249	.000,000	-.019	-.006
27	-.353	-.179	.097	.860	.133	-.004	-.021
28	-.166	.044	.310	.777	.860	.626	.405
29	.143	.523	.592	.700	.710	.634	.577
30	.247	.654	.613	.812	.783	.780	.080
31	.903	1.105	.669	.965	1.064	1.017	.528
32	.888	1.082	.911	.964	1.043	1.052	.859
33	.570	.798	.598	.819	.840	.748	.513

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.072	1.133	.626	-.415	.615	.919	.465
2	.588	.592	.280	-1.211	-.134	.304	-.129
3	.290	.310	.143	-1.079	-.418	-.073	-.315
4	-.116	-.118	-.222	-1.235	-.746	-.544	-.677
5	-.464	-.597	-.518	-1.109	-.821	-.592	-.696
6	.000,000	.000,000	.000,000	.151	.302	-.051	-.124
7	.000,000	.000,000	.000,000	-1.208	-.953	-.678	-.652
8	.000,000	.000,000	.000,000	-2.146	-2.121	-1.524	-1.457
9	.000,000	.000,000	.000,000	-2.687	-2.886	-2.189	-1.890
10	-.646	-.867	-1.010	-2.871	-2.303	-1.807	-1.540
11	-.708	-1.080	.000,000	-1.441	-1.630	-1.098	-1.001
12	-1.060	-.870	-.899	-.736	-1.061	-.709	-.704
13	-.722	-.846	-.869	-.776	-.895	-.634	-.597
14	-.907	-.960	-.897	-.772	-.933	-.655	-.501
15	-.498	-1.287	-.153	-.129	-.194	-.057	.025
16	-1.982	-2.242	-1.659	-1.405	-1.990	-1.746	-1.182
17	-2.835	-3.281	-2.684	-1.857	-2.781	-2.292	-1.576
18	-3.135	-3.355	-2.983	-1.753	-2.888	-2.617	-1.815
19	-3.243	-3.316	-3.017	-1.654	-2.895	-2.608	-1.610
20	-2.817	-2.373	-2.059	-1.534	-2.410	-2.134	-1.548
21	-2.299	-1.286	-.906	-1.083	-1.747	-1.586	-1.154
22	-1.603	-.648	-.562	-.681	-.844	-.946	-.898
23	-.852	-.475	-.488	-.365	-.212	-.289	-.442
24	-.769	-.511	-.493	-.310	.048	-.262	-.287
25	.816	.947	.679	.613	1.085	1.009	.409
26	.211	.398	.516	.247	.000,000	-.065	-.053
27	-.271	.044	.179	.940	.427	-.064	.213
28	-.146	.120	.282	.805	.846	.780	.312
29	.111	.504	.547	.712	.741	.617	.505
30	.210	.778	.677	.896	.876	.846	.094
31	.836	1.174	.908	1.017	1.060	1.088	.444
32	.824	1.080	.945	1.024	1.062	1.001	.823
33	.578	.806	.622	.835	.871	.717	.503

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.088	1.069	.731	-.631	.443	.947	-.148
2	.427	.298	.006	-1.547	-.420	.117	-.693
3	.145	.025	-.114	-1.578	-.839	-.190	-.981
4	-.235	-.452	-.371	-1.583	-1.076	-.610	-1.047
5	-.642	-.866	-.787	-1.517	-1.186	-.908	-1.088
6	.000,000	.000,000	.000,000	.184	.342	-.027	-.134
7	.000,000	.000,000	.000,000	-1.365	-1.144	-.677	-.747
8	.000,000	.000,000	.000,000	-2.550	-2.495	-1.842	-1.666
9	.000,000	.000,000	.000,000	-2.939	-3.260	-2.425	-1.967
10	-.729	-.985	-.974	-2.880	-2.310	-1.664	-1.368
11	-.769	-1.226	.000,000	-1.458	-1.714	-1.060	-.961
12	-1.200	-.952	-.919	-.816	-1.088	-.606	-.602
13	-.821	-.996	-.735	-.761	-.824	-.599	-.546
14	-1.097	-1.107	-.764	-.804	-.952	-.625	-.559
15	-.540	-1.344	-.155	-.101	-.121	-.070	-.014
16	-2.239	-2.338	-1.756	-1.575	-2.060	-1.517	-.966
17	-3.271	-3.554	-2.602	-1.861	-2.755	-1.974	-1.424
18	-3.706	-3.721	-2.919	-2.108	-3.129	-2.435	-1.590
19	-3.757	-3.471	-2.925	-1.929	-3.110	-2.488	-1.686
20	-3.075	-2.523	-2.024	-1.365	-2.305	-1.879	-1.491
21	-2.440	-1.610	-.854	-1.042	-1.647	-1.365	-1.235
22	-1.804	-.748	-.440	-.703	-1.015	-.953	-.993
23	-1.034	-.599	-.383	-.388	-.206	-.289	-.550
24	-.899	-.547	-.294	-.205	.049	-.180	-.224
25	.975	1.105	1.050	.682	1.098	1.076	.140
26	.395	.702	.876	.357	.000,000	-.094	-.138
27	-.165	.198	.453	.984	.850	-.140	.021
28	-.108	.185	.368	.857	.860	.690	.225
29	.100	.537	.836	.752	.767	.634	.408
30	.227	.782	.852	.769	.807	.825	.103
31	.822	1.163	1.221	.998	1.045	1.087	.350
32	.847	1.081	.976	1.014	1.036	1.019	.850
33	.526	.770	.889	.852	.858	.698	.485

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.973	.846	.323	-.861	.130	.683	-.681
2	.213	-.032	-.378	-1.879	-.678	-.065	-1.068
3	-.097	-.380	-.521	-1.908	-1.238	-.582	-1.319
4	-.536	-.763	-.773	-2.062	-1.377	-.900	-1.305
5	-.867	-1.137	-.893	-1.779	-1.398	-1.011	-1.229
6	.000,000	.000,000	.000,000	.183	.220	-.083	-.125
7	.000,000	.000,000	.000,000	-1.668	-1.432	-.880	-.873
8	.000,000	.000,000	.000,000	-2.684	-2.626	-1.725	-1.328
9	.000,000	.000,000	.000,000	-3.202	-3.478	-2.467	-1.661
10	-.787	-1.142	-1.257	-3.030	-2.467	-1.701	-1.219
11	-.886	-1.316	.000,000	-1.445	-1.735	-1.050	-.859
12	-1.245	-1.005	-.965	-.795	-1.039	-.613	-.547
13	-.950	-1.079	-.850	-.740	-.768	-.663	-.513
14	-1.330	-1.237	-.969	-.872	-.985	-.702	-.473
15	-.750	-1.351	-.239	-.093	-.116	-.092	-.047
16	-2.641	-2.612	-2.029	-1.743	-2.045	-1.838	-1.052
17	-3.626	-3.798	-2.862	-1.812	-2.734	-1.831	-1.138
18	-4.122	-4.116	-3.252	-1.800	-3.014	-2.560	-1.690
19	-4.335	-3.988	-3.115	-1.901	-3.118	-2.689	-1.425
20	-3.408	-3.032	-2.497	-1.387	-2.497	-1.934	-1.592
21	-2.789	-1.855	-1.361	-1.096	-1.746	-1.335	-1.135
22	-1.729	-.770	-.439	-.808	-.935	-.835	-.970
23	-1.140	-.731	-.515	-.369	-.293	-.358	-.354
24	-1.150	-.627	-.476	-.306	.042	-.168	-.154
25	1.031	1.169	.973	.639	1.040	1.038	-.216
26	.505	.930	1.102	.417	.000,000	-.070	-.086
27	-.130	.335	.553	1.093	.865	.222	.225
28	-.065	.259	.423	1.050	.879	.681	.285
29	.056	.554	.739	.771	.733	.573	.424
30	.191	.857	.889	.791	.803	.767	.221
31	.738	1.197	1.118	1.061	1.026	1.023	.296
32	.814	1.118	1.094	1.082	1.026	1.003	.745
33	.556	.785	.819	.920	.856	.652	.539

Table 14. - Continued.

(b) $C_{T,s} = 0.80$, $q_s = 19.99$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.868	.627	.160	-1.300	-.116	.612	-1.322
2	.028	-.287	-.639	-2.384	-1.052	-.374	-1.397
3	-.301	-.655	-.884	-2.393	-1.434	-.708	-1.457
4	-.733	-1.096	-1.146	-2.487	-1.729	-1.265	-1.634
5	-1.072	-1.457	-1.300	-2.098	-1.683	-1.331	-1.421
6	*000.000	*000.000	*000.000	.122	.195	*-.063	-.204
7	*000.000	*000.000	*000.000	-1.784	-1.465	-.877	-1.008
8	*000.000	*000.000	*000.000	-2.948	-2.859	-1.960	-1.704
9	*000.000	*000.000	*000.000	-3.430	-3.669	-2.504	-1.807
10	-.929	-1.336	-1.484	-3.106	-2.520	-1.542	-1.089
11	-.936	-1.419	*000.000	-1.449	-1.719	-.962	-.880
12	-1.345	-1.091	-.953	-.839	-.997	-.622	-.630
13	-1.120	-1.148	-.973	-.782	-.808	-.550	-.439
14	-1.373	-1.260	-.966	-.812	-.822	-.610	-.504
15	-.878	-1.368	-.206	-.129	-.113	0.	-.186
16	-2.777	-2.809	-2.139	-1.617	-1.971	-1.599	-1.020
17	-3.842	-4.079	-3.243	-1.955	-2.692	-1.853	-1.335
18	-4.406	-4.256	-3.437	-1.859	-2.889	-2.176	-1.504
19	-4.737	-4.576	-3.702	-2.085	-3.197	-2.642	-1.595
20	-3.745	-3.326	-2.434	-1.647	-2.369	-1.589	-1.269
21	-2.943	-2.013	-1.561	-1.252	-1.974	-1.439	-1.263
22	-1.760	-1.198	-.877	-.889	-1.078	-1.055	-1.133
23	-1.328	-.897	-.457	-.312	-.298	-.330	-.528
24	-1.104	-.718	-.410	-.257	.036	-.104	-.225
25	1.056	1.183	.906	.490	1.026	1.180	-.493
26	.637	1.063	1.134	.493	*000.000	-.099	-.111
27	-.074	.468	.645	1.099	.900	.207	.179
28	-.061	.296	.517	.918	.889	.534	.202
29	.005	.563	.660	.813	.762	.538	.347
30	.172	.835	.849	.868	.827	.854	.087
31	.669	1.185	1.179	1.058	1.045	1.052	.150
32	.762	1.139	1.219	1.101	1.027	.972	.644
33	.532	.794	.915	.938	.886	.699	.445

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.677	.337	-.321	-1.531	-.287	.070	-1.914
2	-.302	-.713	-1.198	-2.813	-1.548	-1.110	-1.871
3	-.601	-1.086	-1.322	-2.801	-1.860	-1.212	-1.810
4	-1.051	-1.466	-1.601	-2.762	-1.885	-1.615	-1.467
5	-1.250	-1.716	-1.636	-2.367	-1.931	-1.816	-1.393
6	*000.000	*000.000	*000.000	.111	.160	*-.349	-.302
7	*000.000	*000.000	*000.000	-2.027	-1.693	-1.147	-1.213
8	*000.000	*000.000	*000.000	-3.018	-2.894	-1.878	-1.447
9	*000.000	*000.000	*000.000	-3.659	-3.921	-2.649	-1.855
10	-1.068	-1.441	-1.620	-3.216	-2.579	-1.673	-1.081
11	-1.067	-1.469	*000.000	-1.399	-1.673	-.865	-.740
12	-1.445	-1.220	-1.073	-.847	-1.015	-.643	-.582
13	-1.327	-1.299	-1.052	-.769	-.806	-.727	-.484
14	-1.685	-1.484	-1.099	-.866	-.851	-.671	-.451
15	-1.006	-1.353	-.216	-.159	-.160	-.049	-.225
16	-2.952	-3.060	-2.407	-1.788	-2.024	-1.517	-.928
17	-4.527	-4.835	-3.593	-2.025	-2.703	-1.826	-.916
18	-4.827	-4.627	-3.661	-2.071	-3.015	-2.273	-1.349
19	-4.772	-4.763	-3.777	-1.835	-2.839	-2.092	-1.209
20	-3.746	-3.612	-2.721	-1.684	-2.418	-1.195	-1.170
21	-2.672	-2.290	-1.803	-1.318	-1.923	-1.460	-1.115
22	-1.611	-1.255	-.888	-.837	-.975	-.841	-.944
23	-1.314	-.853	-.541	-.357	-.312	-.440	-.480
24	-1.254	-1.071	-.435	-.297	.017	-.286	-.199
25	1.140	1.235	.781	.424	1.011	.975	-1.024
26	.719	1.122	1.055	.565	*000.000	-.238	-.110
27	-.002	.587	.739	1.066	.851	.232	.259
28	-.088	.373	.517	.919	.856	.392	.232
29	-.042	.583	.709	.791	.718	.345	.324
30	.028	.902	.846	.848	.828	.780	.059
31	.597	1.232	1.153	1.159	1.033	1.011	.078
32	.662	1.106	1.083	1.044	.978	.923	.638
33	.483	.812	.945	.890	.857	.615	.414

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.586	.089	-.650	-2.019	-.617	-.762	-2.398
2	-.412	-1.033	-1.538	-3.105	-1.896	-1.699	-2.448
3	-.789	-1.400	-1.722	-3.175	-2.228	-1.704	-2.103
4	-1.212	-1.854	-2.170	-3.291	-2.295	-1.874	-2.063
5	-1.457	-1.967	-1.958	-2.718	-2.179	-1.735	-1.540
6	*000.000	*000.000	*000.000	.029	.102	*-.247	-.473
7	*000.000	*000.000	*000.000	-2.121	-1.794	-1.212	-1.322
8	*000.000	*000.000	*000.000	-3.128	-2.970	-1.763	-1.537
9	*000.000	*000.000	*000.000	-3.544	-3.768	-2.353	-1.509
10	-1.246	-1.703	-1.930	-3.543	-2.885	-1.805	-1.223
11	-1.119	-1.544	*000.000	-1.389	-1.649	*-.793	-.706
12	-1.494	-1.229	-1.092	-.839	-1.034	-.551	-.584
13	-1.440	-1.366	-1.103	-.721	-.682	-.540	-.304
14	-1.767	-1.531	-1.203	-.847	-.825	-.557	-.563
15	-1.138	-1.360	-.308	-.147	-.094	.026	-.189
16	-2.974	-3.124	-2.502	-1.574	-1.705	-1.349	-.878
17	-4.124	-4.442	-3.547	-1.901	-2.479	-1.514	-.977
18	-4.830	-4.961	-4.048	-2.001	-2.620	-1.128	-.954
19	-4.901	-5.353	-4.343	-1.980	-2.994	-1.720	-1.501
20	-3.769	-3.991	-3.363	-1.774	-2.318	-1.366	-1.241
21	-2.320	-2.848	-2.662	-1.314	-1.791	-.964	-.863
22	-1.589	-1.614	-1.192	-.932	-.988	-.913	-.929
23	-1.343	-1.073	-.516	-.354	-.264	-.320	-.311
24	-1.164	-.887	-.622	-.306	-.043	-.181	-.367
25	1.060	1.149	.612	.285	.964	.226	-1.497
26	.744	1.215	1.164	.615	*000.000	-.023	-.256
27	.009	.659	.847	1.070	.849	.159	.309
28	-.111	.375	.559	.905	.826	.219	.073
29	-.098	.545	.645	.768	.661	.400	.254
30	-.021	.864	.842	.868	.747	.757	.045
31	.552	1.195	1.182	1.133	1.024	1.049	-.009
32	.619	1.097	1.138	1.053	.987	.952	.479
33	.447	.742	.905	.729	.806	.568	.239

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.446	-.132	-.968	-2.050	-.909	-1.049	-1.511
2	-.709	-1.459	-2.104	-3.715	-2.507	-1.610	-1.537
3	-.929	-1.689	-2.128	-3.486	-2.614	-1.691	-1.509
4	-1.491	-2.152	-2.388	-3.457	-2.712	-1.553	-.668
5	-1.606	-2.134	-2.165	-2.821	-2.402	-1.198	-.833
6	*000.000	*000.000	*000.000	0.	.062	-.150	-.226
7	*000.000	*000.000	*000.000	-2.149	-1.863	-.590	-.603
8	*000.000	*000.000	*000.000	-3.369	-3.399	-1.158	-.702
9	*000.000	*000.000	*000.000	-3.902	-4.355	-.545	-.366
10	-1.312	-1.725	-1.933	-3.205	-2.715	-.287	-.272
11	-1.261	-1.634	*000.000	-1.389	-1.584	-.320	-.264
12	-1.605	-1.369	-1.172	-.880	-.934	-.325	-.323
13	-1.602	-1.476	-1.190	-.782	-.699	-.318	-.403
14	-1.825	-1.578	-1.231	-.828	-.698	-.281	-.311
15	-1.227	-1.390	-.322	-.110	-.095	.109	-.226
16	-3.023	-3.340	-2.699	-1.551	-1.606	-.711	-.453
17	-4.283	-4.778	-3.857	-1.983	-2.139	-.648	-.470
18	-4.847	-5.225	-4.737	-2.093	-2.104	-.555	-.453
19	-4.359	-5.005	-4.445	-2.001	-2.380	-.674	-.409
20	-3.184	-4.185	-3.599	-1.591	-1.354	-.527	-.434
21	-1.770	-2.833	-2.401	-1.131	-1.303	-.417	-.358
22	-1.613	-1.857	-1.622	-.888	-.737	-.396	-.415
23	-1.267	-1.074	-.638	-.357	-.317	-.421	-.389
24	-1.174	-1.093	-.630	-.371	-.170	-.277	-.390
25	1.111	1.156	.609	.251	.977	-.140	-1.064
26	.758	1.244	1.190	.625	*000.000	-.030	-.337
27	-.045	.727	.940	1.153	.879	.163	.048
28	-.132	.391	.551	.948	.804	.230	.051
29	-.138	.541	.644	.769	.608	.394	.209
30	-.118	.888	.867	.906	.763	.734	-.124
31	.518	1.282	1.256	1.175	1.092	1.040	-.055
32	.625	1.143	1.195	.993	.976	.903	.364
33	.384	.732	.890	.629	.784	.479	.163

Table 14.- Continued.

(b) $C_{T,S} = 0.80$, $q_s = 19.99$

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.293	-.354	-1.209	-1.964	-1.060	-.730	-1.013
2	-.875	-1.653	-2.365	-3.575	-2.525	-1.516	-.938
3	-1.118	-2.003	-2.402	-3.563	-2.728	-1.084	-.667
4	-1.594	-2.273	-2.553	-3.522	-2.932	-1.405	-.684
5	-1.778	-2.353	-2.300	-2.819	-2.523	-.664	-.481
6	*000.000	*000.000	*000.000	-.033	-.023	-.176	-.131
7	*000.000	*000.000	*000.000	-2.089	-1.825	-.464	-.491
8	*000.000	*000.000	*000.000	-3.242	-3.157	-.301	-.465
9	*000.000	*000.000	*000.000	-3.743	-3.923	-.185	-.201
10	-1.481	-1.836	-1.937	-2.958	-2.550	-.206	-.198
11	-1.417	-1.748	*000.000	-1.213	-1.350	-.238	-.207
12	-1.586	-1.384	-1.141	-.779	-.852	-.214	-.310
13	-1.685	-1.548	-1.212	-.806	-.625	-.157	-.250
14	-1.830	-1.632	-1.248	-.859	-.708	-.270	-.248
15	-1.271	-1.356	-.247	-.084	-.014	.205	-.110
16	-2.821	-3.288	-2.461	-1.317	-1.173	-.453	-.243
17	-4.064	-4.624	-3.475	-1.650	-1.896	-.400	-.219
18	-4.580	-5.417	-4.279	-1.934	-1.845	-.489	-.384
19	-4.213	-5.335	-4.455	-1.848	-2.228	-.455	-.284
20	-2.827	-4.145	-3.340	-1.327	-1.163	-.406	-.357
21	-1.849	-3.412	-2.770	-1.187	-.992	-.405	-.361
22	-1.273	-1.697	-1.712	-.946	-.874	-.371	-.234
23	-1.184	-1.015	-.536	-.360	-.299	-.183	-.169
24	-.989	-1.077	-.507	-.270	-.124	-.227	-.221
25	1.057	1.026	.360	.287	.827	-.742	-.995
26	.702	1.211	1.146	-.475	*000.000	.138	-.230
27	-.035	.728	.931	1.099	.852	.195	.124
28	-.138	.392	.557	1.057	.754	.273	.134
29	-.219	.519	.665	.756	.560	.385	.320
30	-.190	.902	.888	.790	.700	.804	-.100
31	.387	1.158	1.183	1.015	.976	.948	.040
32	.536	1.101	1.182	.878	.952	.901	.345
33	.338	.706	.945	.525	.693	.451	.150

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.185	-.460	-1.398	-2.046	-1.365	-.649	-.727
2	-1.056	-1.859	-2.577	-3.633	-2.850	-.757	-.548
3	-1.412	-2.167	-2.535	-3.460	-3.114	-.790	-.620
4	-1.755	-2.378	-2.530	-3.372	-2.801	-.589	-.559
5	-2.035	-2.587	-2.404	-2.940	-2.644	-.500	-.597
6	*000.000	*000.000	*000.000	.027	-.027	-.129	-.105
7	*000.000	*000.000	*000.000	-1.887	-1.596	-.280	-.370
8	*000.000	*000.000	*000.000	-3.080	-2.943	-.490	-.394
9	*000.000	*000.000	*000.000	-3.445	-3.432	-.234	-.187
10	-1.568	-1.819	-1.731	-2.509	-2.008	-.277	-.256
11	-1.506	-1.705	*000.000	-1.081	-1.167	-.238	-.294
12	-1.355	-1.307	-.909	-.638	-.520	-.157	-.204
13	-1.591	-1.386	-.887	-.568	-.371	-.099	-.132
14	-1.713	-1.553	-1.028	-.631	-.451	-.135	-.236
15	-1.162	-1.261	-.175	-.050	.058	.183	-.120
16	-2.716	-3.306	-2.386	-1.248	-1.051	-.325	-.137
17	-4.097	-5.167	-3.627	-1.598	-1.402	-.660	-.468
18	-3.995	-4.884	-3.667	-1.593	-1.603	-.585	-.382
19	-3.437	-5.032	-4.381	-1.518	-1.293	-.524	-.327
20	-2.136	-3.667	-3.098	-1.254	-1.204	-.329	-.331
21	-1.896	-3.179	-2.548	-.943	-1.102	-.513	-.485
22	-1.054	-1.744	-1.492	-.632	-.670	-.290	-.322
23	-1.055	-.918	-.586	-.391	-.247	-.280	-.298
24	-1.125	-1.083	-.400	-.215	-.205	-.188	-.234
25	.986	.980	.338	.288	.690	-.417	-.547
26	.699	1.224	1.165	.402	*000.000	.098	-.267
27	-.014	.757	.974	1.075	.868	.166	.089
28	-.165	.387	.586	.869	.699	.203	.065
29	-.237	.488	.646	.699	.485	.317	.152
30	-.297	.881	.894	.745	.595	.665	-.122
31	.355	1.157	1.183	1.001	.947	.845	-.165
32	.474	1.069	1.176	.820	.892	.811	.087
33	.288	.721	.952	.509	.655	.440	-.070

$\alpha = 65°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.145	-.540	-1.461	-1.754	-1.315	-.492	-.438
2	-1.115	-1.893	-2.418	-3.316	-2.776	-.488	-.563
3	-1.528	-2.243	-2.588	-3.286	-3.196	-.474	-.476
4	-1.976	-2.510	-2.589	-3.355	-3.005	-.477	-.352
5	-2.103	-2.527	-2.261	-2.808	-2.403	-.362	-.332
6	*000.000	*000.000	*000.000	-.033	-.110	-.136	-.058
7	*000.000	*000.000	*000.000	-1.934	-1.513	-.352	-.318
8	*000.000	*000.000	*000.000	-2.758	-2.416	-.169	-.184
9	*000.000	*000.000	*000.000	-3.060	-2.918	-.322	-.191
10	-1.672	-1.806	-1.690	-2.338	-1.694	-.174	-.174
11	-1.617	-1.759	*000.000	-1.000	-.821	-.220	-.215
12	-1.455	-1.425	-1.015	-.655	-.478	-.208	-.222
13	-1.603	-1.473	-1.033	-.591	-.342	-.132	-.204
14	-1.850	-1.642	-1.099	-.582	-.413	-.140	-.163
15	-1.390	-1.368	-.260	-.118	-.025	.035	-.228
16	-2.882	-3.191	-2.170	-1.044	-.950	-.522	-.338
17	-4.260	-5.011	-3.429	-1.399	-1.133	-.498	-.466
18	-4.634	-5.193	-3.798	-1.473	-1.425	-.604	-.388
19	-4.146	-5.221	-3.937	-1.502	-1.342	-.501	-.487
20	-3.314	-4.152	-3.153	-1.240	-1.454	-.582	-.458
21	-2.081	-2.892	-2.415	-.689	-.576	-.338	-.323
22	-1.268	-1.865	-1.833	-.691	-.580	-.409	-.343
23	-1.339	-.878	-.533	-.365	-.349	-.363	-.229
24	-1.179	-.961	-.498	-.259	-.140	-.244	-.224
25	.974	.988	.219	.446	.300	-.667	-.597
26	.658	1.232	1.144	.264	*000.000	.089	-.200
27	-.093	.750	.916	1.064	.856	.126	.029
28	-.249	.374	.545	.849	.519	.182	.162
29	-.291	.512	.655	.749	.392	.265	.192
30	-.279	.816	.793	.582	.526	.521	-.089
31	.359	1.176	1.166	.922	.978	.695	-.098
32	.478	1.086	1.156	.720	.730	.687	.174
33	.253	.679	.900	.510	.486	.336	.094

$\alpha = 70°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.091	-.716	-1.691	-2.046	-2.184	-.356	-.355
2	-1.341	-1.986	-2.586	-3.530	-3.214	-.395	-.332
3	-1.761	-2.419	-2.782	-3.590	-3.113	-.196	-.187
4	-2.176	-2.646	-2.666	-3.528	-2.959	-.203	-.239
5	-2.237	-2.504	-2.267	-2.777	-2.215	-.182	-.219
6	*000.000	*000.000	*000.000	-.076	-.223	-.104	-.009
7	*000.000	*000.000	*000.000	-2.128	-1.661	-.320	-.310
8	*000.000	*000.000	*000.000	-2.862	-2.322	-.245	-.262
9	*000.000	*000.000	*000.000	-2.895	-2.313	-.140	-.171
10	-1.864	-1.909	-1.712	-2.166	-1.300	-.151	-.148
11	-1.760	-1.802	*000.000	-.977	-.708	-.100	-.235
12	-1.316	-1.392	-.942	-.588	-.515	-.089	-.164
13	-1.475	-1.379	-.901	-.485	-.313	-.162	-.212
14	-1.800	-1.619	-1.036	-.609	-.465	-.210	-.255
15	-1.345	-1.268	-.215	-.010	.081	.119	-.247
16	-2.554	-3.174	-2.325	-.883	-.827	-.344	-.238
17	-3.263	-4.479	-3.328	-.801	-.557	-.382	-.304
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
24	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
25	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
26	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
27	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
28	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
29	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
32	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
33	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000

Table 14.- Continued.

(c) $C_{T,S} = 0.60$, $q_S = 21.57$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.159	1.228	.531	.612	1.213	1.177	.966
2	.910	.940	.365	.297	.888	.958	.757
3	.641	.630	.147	.219	.738	.826	.604
4	.245	.195	-.167	.069	.395	.391	.199
5	-.152	-.241	-.497	-.148	-.080	.053	-.061
6	*000.000	*000.000	*000.000	.031	.034	.107	.055
7	*000.000	*000.000	*000.000	-.515	-.412	-.243	-.271
8	*000.000	*000.000	*000.000	-1.357	-1.315	-1.062	-1.006
9	*000.000	*000.000	*000.000	-2.154	-2.394	-2.114	-1.904
10	-.466	-.764	-.953	-2.514	-2.033	-1.716	-1.501
11	-.702	-1.073	*000.000	-1.510	-1.694	-1.373	-1.266
12	-1.019	-.836	-.775	-1.000	-1.118	-.919	-.839
13	-.596	-.941	-.791	-.850	-.978	-.814	-.764
14	-.748	-.951	-.798	-.915	-1.059	-.853	-.758
15	-.298	-1.047	.047	-.180	-.141	-.188	-.099
16	-1.803	-1.991	-1.120	-1.710	-1.876	-1.766	-1.191
17	-2.871	-3.200	-1.769	-2.412	-2.435	-2.294	-1.752
18	-3.164	-3.119	-1.806	-2.420	-2.529	-2.380	-1.920
19	-3.318	-3.073	-1.645	-2.458	-2.753	-2.496	-1.907
20	-2.736	-2.187	-.905	-1.826	-1.767	-1.804	-1.441
21	-2.203	-1.186	-.421	-1.052	-.396	-1.019	-1.002
22	-1.367	-.513	-.485	-.582	-.395	-.412	-.617
23	-.785	-.410	-.341	-.292	-.293	-.353	-.536
24	-.671	-.418	-.302	-.279	-.279	-.322	-.407
25	.576	.577	.384	.497	.754	.552	.452
26	-.176	-.224	.173	-.072	*000.000	.096	.502
27	-.430	-.333	.083	.327	.022	.106	.078
28	-.150	-.060	.233	.618	.396	.144	.247
29	.163	.398	.435	.519	.686	.632	.432
30	.269	.586	.473	.765	.845	.847	.033
31	.925	1.135	.399	.988	1.022	.994	.398
32	.921	1.028	.613	.985	1.077	.967	.976
33	.615	.700	.499	.790	.861	.732	.763

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.110	1.100	.239	.280	1.039	1.108	.863
2	.609	.597	-.182	-.396	.497	.778	.562
3	.364	.251	-.427	-.330	.109	.462	.307
4	-.095	-.360	-.743	-.710	-.274	.027	-.118
5	-.480	-.715	-.948	-.699	-.558	-.296	-.356
6	*000.000	*000.000	*000.000	.076	.054	.017	-.039
7	*000.000	*000.000	*000.000	-.994	-.826	-.625	-.657
8	*000.000	*000.000	*000.000	-1.879	-1.930	-1.608	-1.565
9	*000.000	*000.000	*000.000	-2.726	-3.038	-2.570	-2.329
10	-.721	-.966	-1.249	-2.946	-2.440	-2.032	-1.835
11	-.761	-1.142	*000.000	-1.550	-1.750	-1.385	-1.293
12	-1.173	-.984	-.976	-1.088	-1.295	-.995	-.953
13	-.722	-1.057	-.962	-.971	-1.137	-.947	-.905
14	-.957	-1.067	-.946	-1.001	-1.187	-.916	-.864
15	-.431	-1.098	-.128	-.244	-.312	-.234	-.124
16	-2.146	-2.238	-1.359	-1.944	-2.198	-2.117	-1.444
17	-3.159	-3.297	-2.430	-2.353	-2.772	-2.281	-1.860
18	-3.654	-3.533	-2.648	-2.875	-3.542	-2.973	-2.192
19	-3.804	-3.451	-2.304	-2.849	-3.364	-2.909	-2.021
20	-2.929	-2.166	-1.393	-1.892	-1.528	-1.905	-1.616
21	-2.438	-1.364	-.910	-1.394	-1.407	-1.164	-1.007
22	-1.523	-.558	-.565	-.795	-.613	-.528	-.700
23	-.964	-.462	-.499	-.287	-.417	-.293	-.399
24	-.731	-.458	-.427	-.214	-.360	-.278	-.416
25	.892	.905	.423	.671	.979	.808	.685
26	.231	.370	.565	.125	*000.000	.031	.419
27	-.242	-.108	.273	.619	-.046	.010	.084
28	-.040	.093	.365	.694	.961	.499	.396
29	.168	.512	.534	.663	.708	.657	.501
30	.275	.705	.578	.832	.802	.818	.024
31	.896	1.139	.642	1.015	1.054	1.080	.396
32	.854	1.026	.616	.963	1.029	.999	.892
33	.672	.761	.488	.822	.863	.754	.427

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.011	.997	.052	-.417	.700	.977	.684
2	.287	.198	-.710	-1.044	-.061	.297	.088
3	-.084	-.224	-.792	-.922	-.303	-.001	-.120
4	-.496	-.797	-1.174	-1.483	-.935	-.598	-.734
5	-.743	-1.150	-1.269	-1.316	-.991	-.748	-.758
6	*000.000	*000.000	*000.000	.072	.174	-.029	-.064
7	*000.000	*000.000	*000.000	-1.420	-1.075	-.897	-.898
8	*000.000	*000.000	*000.000	-2.523	-2.388	-2.034	-1.925
9	*000.000	*000.000	*000.000	-3.259	-3.520	-2.998	-2.736
10	-.855	-1.149	-1.288	-3.040	-2.551	-2.257	-2.026
11	-.911	-1.408	*000.000	-1.710	-1.986	-1.669	-1.551
12	-1.457	-1.117	-1.046	-1.162	-1.387	-1.133	-1.082
13	-.879	-1.068	-.959	-.918	-1.154	-.996	-.923
14	-1.144	-1.182	-.996	-.994	-1.241	-1.032	-.868
15	-.665	-1.194	-.122	-.222	-.306	-.223	-.117
16	-2.641	-2.825	-2.040	-1.972	-2.585	-2.432	-1.501
17	-3.626	-3.857	-2.788	-2.272	-3.166	-2.505	-1.797
18	-4.021	-3.857	-3.004	-2.355	-3.183	-2.784	-1.899
19	-4.190	-3.749	-3.147	-2.553	-3.720	-3.274	-2.003
20	-3.523	-2.824	-2.110	-2.057	-2.651	-2.204	-1.480
21	-2.670	-1.511	-1.125	-1.385	-1.970	-1.733	-1.012
22	-1.711	-.723	-.761	-.837	-.347	-.572	-.710
23	-1.160	-.545	-.354	-.224	-.350	-.321	-.676
24	-.972	-.562	-.470	-.358	.002	-.428	-.445
25	1.029	1.202	.441	.660	1.123	1.041	.782
26	.570	.748	.755	.113	*000.000	-.114	.267
27	-.011	.315	.553	.957	.721	.222	.282
28	-.019	.253	.512	.801	.891	.786	.535
29	.162	.549	.641	.744	.761	.665	.502
30	.241	.876	.693	.871	.850	.820	-.002
31	.785	1.149	.945	1.001	1.101	1.089	.394
32	.923	1.229	.954	1.109	1.203	1.138	.915
33	.636	.853	.717	.959	.930	.804	.505

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.758	.550	-.444	-.925	.131	.642	.025
2	-.121	-.473	-1.186	-1.750	-.758	-.374	-.620
3	-.412	-.842	-1.586	-1.992	-1.328	-.668	-.898
4	-.849	-1.317	-1.708	-2.173	-1.501	-1.067	-1.267
5	-1.119	-1.580	-1.582	-1.873	-1.546	-1.184	-1.200
6	*000.000	*000.000	*000.000	.087	.144	-.052	-.095
7	*000.000	*000.000	*000.000	-1.875	-1.588	-1.244	-1.290
8	*000.000	*000.000	*000.000	-3.046	-3.007	-2.479	-2.328
9	*000.000	*000.000	*000.000	-3.815	-4.081	-3.548	-3.268
10	-1.057	-1.457	-1.626	-3.450	-2.947	-2.585	-2.286
11	-1.093	-1.548	*000.000	-1.751	-2.127	-1.772	-1.606
12	-1.594	-1.148	-1.127	-1.176	-1.417	-1.100	-1.044
13	-1.130	-1.252	-1.083	-1.027	-1.276	-1.057	-.933
14	-1.351	-1.230	-1.067	-.982	-1.111	-.946	-.799
15	-.897	-1.266	-.162	-.220	-.340	-.328	-.220
16	-2.847	-2.680	-2.099	-2.095	-2.504	-2.306	-1.441
17	-4.138	-4.114	-3.275	-2.384	-3.168	-2.564	-1.824
18	-4.750	-4.190	-3.389	-2.523	-3.539	-3.125	-2.200
19	-4.684	-4.105	-3.338	-2.338	-3.536	-3.074	-2.015
20	-4.034	-3.028	-2.292	-1.884	-2.221	-1.903	-1.632
21	-3.140	-2.008	-1.434	-1.268	-1.647	-1.739	-1.294
22	-2.115	-.868	-.610	-1.022	-.851	-1.210	-1.036
23	-1.352	-.718	-.385	-.441	-.175	-.351	-.729
24	-1.211	-.585	-.487	-.251	-.005	-.132	-.482
25	1.179	1.285	.473	.562	1.102	1.133	.335
26	.777	1.065	.996	.346	*000.000	-.046	.150
27	.127	.524	.805	1.076	.970	.383	.480
28	.052	.343	.642	.988	.888	.719	.460
29	.146	.584	.734	.781	.801	.663	.494
30	.246	.883	.832	.852	.814	.818	-.043
31	.732	1.256	1.129	1.028	1.095	1.078	.361
32	.768	1.143	1.094	1.035	1.040	1.000	.723
33	.544	.821	.843	.902	.865	.725	.470

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.511	.098	-1.149	-1.495	-.382	.353	-.763
2	-.506	-1.146	-2.114	-2.701	-1.445	-.628	-1.242
3	-.806	-1.485	-2.152	-2.670	-1.863	-1.036	-1.582
4	-1.292	-1.983	-2.369	-2.815	-2.065	-1.506	-1.744
5	-1.445	-2.203	-2.412	-2.615	-2.134	-1.586	-1.621
6	*000.000	*000.000	*000.000	.033	.143	-.049	-.146
7	*000.000	*000.000	*000.000	-2.221	-1.946	-1.383	-1.424
8	*000.000	*000.000	*000.000	-3.350	-3.337	-2.590	-2.445
9	*000.000	*000.000	*000.000	-4.252	-4.557	-3.528	-3.124
10	-1.212	-1.755	-2.030	-3.733	-3.151	-2.479	-2.201
11	-1.156	-1.688	*000.000	-1.787	-2.172	-1.472	-1.306
12	-1.674	-1.334	-1.293	-1.218	-1.443	-.950	-.864
13	-1.233	-1.370	-1.193	-1.045	-1.191	-.756	-.675
14	-1.593	-1.444	-1.236	-1.045	-1.169	-.876	-.733
15	-1.004	-1.276	-.295	-.271	-.293	-.273	-.266
16	-3.141	-3.249	-2.590	-2.073	-2.518	-2.308	-1.478
17	-4.485	-4.446	-3.336	-2.448	-3.391	-2.166	-1.643
18	-4.871	-4.360	-3.779	-2.444	-3.456	-2.701	-1.981
19	-5.239	-4.590	-3.871	-2.684	-3.955	-2.799	-1.986
20	-3.896	-3.635	-2.764	-1.963	-2.800	-2.048	-1.705
21	-3.159	-2.274	-1.671	-1.654	-2.166	-1.647	-1.442
22	-1.743	-1.195	-.906	-.904	-.639	-.836	-.934
23	-1.500	-.898	-.595	-.343	-.392	-.375	-.606
24	-1.312	-.712	-.634	-.269	-.030	-.304	-.258
25	1.213	1.215	.142	.368	.955	1.105	.052
26	1.031	1.240	1.026	.548	*000.000	.103	.103
27	.315	.727	.867	1.065	.833	.596	.389
28	.126	.475	.647	.989	.943	.751	.408
29	.147	.659	.696	.878	.791	.664	.522
30	.195	1.011	.877	.962	.891	.891	.050
31	.712	1.323	1.243	1.148	1.115	1.125	.347
32	.749	1.186	1.117	1.093	1.060	1.006	.686
33	.608	.866	.975	.975	.921	.737	.462

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.209	-.507	-1.908	-2.097	-.904	.028	-1.625
2	-.936	-1.801	-2.834	-3.263	-1.914	-1.045	-1.868
3	-1.266	-2.149	-2.990	-3.643	-2.467	-1.517	-1.969
4	-1.656	-2.519	-3.033	-3.474	-2.431	-1.671	-1.821
5	-1.770	-2.625	-2.751	-2.884	-2.365	-1.819	-1.835
6	*000.000	*000.000	*000.000	-.037	.110	-.117	-.251
7	*000.000	*000.000	*000.000	-2.526	-2.058	-1.422	-1.584
8	*000.000	*000.000	*000.000	-3.757	-3.595	-2.583	-2.414
9	*000.000	*000.000	*000.000	-4.424	-4.575	-3.246	-2.627
10	-1.418	-2.011	-2.187	-3.792	-3.121	-2.213	-1.904
11	-1.290	-1.827	*000.000	-1.787	-2.093	-1.401	-1.284
12	-1.823	-1.495	-1.407	-1.247	-1.327	-.740	-.738
13	-1.447	-1.567	-1.349	-1.083	-1.150	-.738	-.701
14	-1.942	-1.712	-1.374	-1.112	-1.170	-.820	-.602
15	-1.194	-1.338	-.352	-.208	-.182	-.138	-.207
16	-3.435	-3.319	-2.697	-2.080	-2.445	-1.768	-1.117
17	-4.805	-4.670	-3.851	-2.379	-3.226	-2.076	-1.511
18	-5.654	-5.424	-4.685	-2.604	-3.882	-2.780	-2.155
19	-5.494	-5.295	-4.616	-2.644	-3.950	-2.619	-1.900
20	-4.306	-4.012	-3.148	-1.899	-2.906	-2.237	-1.764
21	-3.062	-2.837	-2.420	-1.390	-1.999	-1.695	-1.541
22	-1.986	-1.578	-1.151	-.974	-1.106	-1.054	-1.259
23	-1.895	-1.151	-.698	-.406	-.308	-.386	-.530
24	-1.532	-.991	-.743	-.227	-.049	-.197	-.353
25	1.145	1.049	-.131	.150	.851	1.083	-.526
26	1.072	1.300	1.047	.734	*000.000	.112	-.021
27	.420	.913	1.104	1.147	1.181	.544	.394
28	.125	.549	.715	1.008	.959	.674	.348
29	.058	.678	.693	.888	.828	.615	.418
30	.030	.984	.878	.962	.892	.873	-.020
31	.616	1.293	1.284	1.092	1.120	1.095	.068
32	.748	1.241	1.217	1.126	1.125	1.050	.558
33	.589	.813	.931	.972	.887	.683	.360

Table 14.- Continued.

(c) $C_{T,s} = 0.60$, $q_s = 21.57$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.185	-1.071	-2.553	-2.946	-1.380	-.327	-2.193
2	-1.485	-2.603	-3.779	-4.353	-2.726	-1.609	-2.399
3	-1.854	-3.077	-3.883	-4.641	-3.174	-1.817	-2.294
4	-2.176	-3.187	-3.632	-4.182	-3.083	-2.351	-2.111
5	-2.127	-3.063	-3.096	-3.299	-2.652	-2.210	-1.833
6	*000.000	*000.000	*000.000	-.004	.070	-.102	-.366
7	*000.000	*000.000	*000.000	-2.685	-2.281	-1.566	-1.650
8	*000.000	*000.000	*000.000	-4.063	-4.040	-2.846	-2.345
9	*000.000	*000.000	*000.000	-4.308	-4.974	-3.733	-2.836
10	-1.598	-2.198	-2.397	-3.477	-3.203	-2.364	-1.796
11	-1.476	-1.983	*000.000	-1.857	-2.036	-1.181	-.867
12	-1.884	-1.534	-1.322	-1.288	-1.202	-.721	-.572
13	-1.603	-1.599	-1.308	-1.035	-1.076	-.644	-.560
14	-2.050	-1.726	-1.355	-1.084	-1.099	-.615	-.513
15	-1.315	-1.268	-.257	-.194	-.188	-.138	-.290
16	-3.537	-3.498	-2.663	-1.876	-2.308	-1.439	-.929
17	-4.996	-5.236	-3.846	-2.213	-3.222	-2.288	-1.477
18	-5.959	-5.870	-4.769	-2.515	-3.675	-2.244	-1.376
19	-5.620	-5.719	-4.703	-2.223	-3.566	-2.606	-1.318
20	-4.446	-4.630	-3.735	-1.910	-2.826	-1.948	-1.385
21	-3.129	-3.314	-2.726	-1.329	-2.055	-1.303	-1.155
22	-2.060	-1.602	-1.537	-.888	-1.240	-1.086	-1.081
23	-1.904	-1.202	-.616	-.474	-.303	-.435	-.620
24	-1.782	-1.203	-.427	-.207	-.109	-.200	-.274
25	1.114	.830	-.424	-.020	.802	.984	-1.030
26	1.118	1.295	1.146	.805	*000.000	-.025	-.075
27	.491	1.002	1.143	1.114	1.089	.451	.325
28	.151	.628	.853	1.004	.959	.484	.288
29	.002	.721	.856	.879	.831	.504	.380
30	-.106	.992	1.012	.964	.847	.826	-.015
31	.474	1.276	1.305	1.151	1.091	1.030	-.026
32	.681	1.217	1.252	1.147	1.086	1.009	.462
33	.509	.890	1.043	1.009	.924	.662	.387

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.572	-1.800	-3.318	-3.804	-1.968	-1.600	-2.984
2	-1.987	-3.397	-4.788	-5.532	-3.648	-2.803	-3.433
3	-2.189	-3.605	-4.425	-5.127	-3.775	-2.591	-2.941
4	-2.551	-3.738	-4.364	-4.803	-3.640	-2.658	-2.463
5	-2.400	-3.360	-3.504	-3.574	-3.032	-2.348	-1.852
6	*000.000	*000.000	*000.000	-.060	-.003	-.172	-.375
7	*000.000	*000.000	*000.000	-2.659	-2.334	-1.555	-1.460
8	*000.000	*000.000	*000.000	-3.727	-3.690	-2.514	-2.033
9	*000.000	*000.000	*000.000	-4.139	-4.802	-3.142	-2.226
10	-1.886	-2.512	-2.688	-3.326	-3.247	-2.148	-1.543
11	-1.540	-2.003	*000.000	-1.810	-1.842	-1.066	-.816
12	-1.902	-1.578	-1.349	-1.197	-1.154	-.670	-.627
13	-1.732	-1.674	-1.306	-1.033	-1.002	-.583	-.514
14	-2.355	-1.956	-1.441	-.995	-.951	-.720	-.486
15	-1.507	-1.359	-.346	-.167	-.216	-.145	-.365
16	-4.297	-4.371	-3.127	-1.864	-2.321	-1.604	-.687
17	-5.723	-6.199	-4.567	-2.149	-3.355	-1.764	-.780
18	-6.114	-6.318	-4.601	-2.223	-3.369	-1.976	-1.039
19	-6.025	-6.306	-4.641	-2.207	-3.207	-1.576	-1.003
20	-4.377	-5.126	-3.757	-1.807	-2.746	-1.449	-.800
21	-2.854	-3.283	-2.673	-1.205	-2.192	-1.376	-.973
22	-2.081	-2.313	-2.026	-.865	-1.370	-1.075	-.896
23	-1.964	-1.274	-.565	-.307	-.356	-.338	-.410
24	-1.784	-1.149	-.480	-.169	-.211	-.224	-.313
25	.943	.431	-.919	-.651	.551	-.142	-1.749
26	1.136	1.304	1.139	.774	*000.000	.241	-.184
27	.539	1.101	1.245	1.105	1.035	.402	.308
28	.160	.665	.836	.993	.911	.402	.294
29	-.051	.736	.847	.957	.777	.559	.358
30	-.147	.998	.972	.960	.813	.792	-.161
31	.392	1.349	1.334	1.188	1.112	1.051	-.007
32	.593	1.214	1.226	.985	1.072	.925	.351
33	.502	.908	1.085	.849	.930	.601	.166

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.966	-2.484	-4.082	-4.102	-2.558	-1.620	-1.981
2	-2.446	-4.034	-5.250	-5.843	-4.066	-2.282	-2.049
3	-2.866	-4.514	-5.481	-6.067	-4.585	-2.074	-1.006
4	-2.891	-4.142	-4.794	-5.097	-3.940	-1.748	-.885
5	-2.774	-3.830	-3.982	-4.051	-3.391	-1.408	-.904
6	*000.000	*000.000	*000.000	-.145	-.112	-.179	-.338
7	*000.000	*000.000	*000.000	-2.722	-2.430	-.640	-.814
8	*000.000	*000.000	*000.000	-4.176	-4.122	-.757	-.690
9	*000.000	*000.000	*000.000	-3.890	-4.846	-.479	-.504
10	-1.988	-2.547	-2.721	-2.754	-3.137	-.421	-.447
11	-1.760	-2.173	*000.000	-1.852	-1.774	-.385	-.357
12	-1.837	-1.607	-1.298	-1.114	-1.041	-.291	-.449
13	-1.900	-1.722	-1.294	-.922	-.787	-.283	-.334
14	-2.241	-1.831	-1.338	-.904	-.865	-.277	-.398
15	-1.550	-1.358	-.293	-.151	-.103	.101	-.176
16	-3.804	-4.104	-3.014	-1.842	-1.690	-.791	-.494
17	-5.082	-5.640	-4.153	-1.997	-2.239	-.776	-.676
18	-5.393	-5.876	-4.307	-2.046	-2.217	-.748	-.713
19	-5.460	-5.832	-4.361	-2.092	-2.286	-.709	-.634
20	-3.815	-4.981	-3.965	-1.693	-1.463	-.609	-.512
21	-2.685	-3.571	-3.111	-1.171	-1.196	-.624	-.543
22	-1.979	-2.290	-1.740	-.748	-.715	-.510	-.449
23	-1.575	-1.165	-.567	-.350	-.358	-.433	-.453
24	-1.841	-1.044	-.444	-.234	-.161	-.413	-.374
25	.776	.083	-1.335	-.959	.264	-.866	-1.159
26	1.139	1.298	1.071	.784	*000.000	.225	-.156
27	.629	1.243	1.315	1.061	1.077	.357	.356
28	.134	.722	.858	.929	.843	.367	.359
29	-.116	.712	.850	.843	.676	.458	.345
30	-.278	1.098	1.095	1.007	.844	.811	-.090
31	.383	1.324	1.283	1.186	1.104	1.032	-.017
32	.541	1.211	1.237	.997	1.008	.950	.301
33	.455	.865	1.071	.711	.860	.531	.212

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.370	-3.062	-4.813	-4.752	-3.049	-1.007	-.999
2	-2.634	-4.323	-5.515	-5.862	-4.274	-.488	-.566
3	-3.064	-4.843	-5.706	-5.961	-4.837	-.613	-.519
4	-3.314	-4.608	-5.237	-5.358	-4.394	-.515	-.489
5	-3.022	-4.063	-4.207	-4.236	-3.535	-.539	-.496
6	*000.000	*000.000	*000.000	-.186	-.232	-.137	-.066
7	*000.000	*000.000	*000.000	-2.644	-2.237	-.461	-.446
8	*000.000	*000.000	*000.000	-3.834	-3.598	-.442	-.541
9	*000.000	*000.000	*000.000	-3.839	-4.360	-.523	-.532
10	-2.111	-2.647	-2.706	-2.424	-2.616	-.401	-.420
11	-1.770	-2.111	*000.000	-1.620	-1.363	-.371	-.442
12	-1.735	-1.573	-1.197	-.960	-.683	-.262	-.365
13	-1.847	-1.756	-1.293	-.913	-.722	-.261	-.439
14	-2.203	-1.870	-1.288	-.814	-.698	-.325	-.404
15	-1.554	-1.369	-.311	-.089	-.131	.091	-.277
16	-3.252	-3.768	-2.722	-1.522	-1.158	-.829	-.590
17	-4.774	-5.696	-4.009	-1.726	-1.197	-.833	-.716
18	-5.515	-6.001	-4.069	-1.862	-1.700	-.566	-.614
19	-5.341	-6.298	-4.646	-2.266	-1.944	-.577	-.810
20	-3.739	-4.819	-3.356	-1.397	-1.321	-.696	-.652
21	-2.329	-3.505	-3.021	-.815	-1.017	-.643	-.606
22	-1.925	-2.409	-1.942	-.897	-.790	-.625	-.635
23	-1.622	-1.018	-.537	-.358	-.446	-.475	-.499
24	-1.535	-1.037	-.429	-.292	-.225	-.377	-.422
25	.698	-.208	-1.747	-1.631	-.021	-1.102	-.834
26	1.158	1.316	.982	.804	*000.000	.274	-.220
27	.551	1.177	1.243	1.069	.997	.349	.289
28	.100	.810	.978	1.040	.745	.423	.345
29	-.136	.720	.888	.831	.614	.460	.348
30	-.138	.978	1.004	.793	.766	.686	-.087
31	.366	1.282	1.316	1.056	1.029	.920	-.042
32	.559	1.233	1.309	.919	.935	.832	.328
33	.396	.833	1.081	.600	.607	.452	-.019

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.505	-3.609	-5.421	-4.826	-3.703	-.710	-.899
2	-3.101	-5.095	-6.336	-6.429	-4.836	-.552	-.498
3	-3.414	-5.170	-5.965	-6.264	-4.957	-.558	-.559
4	-3.497	-4.839	-5.274	-5.597	-4.272	-.491	-.568
5	-3.328	-4.235	-4.250	-4.178	-3.396	-.607	-.558
6	*000.000	*000.000	*000.000	-.165	-.336	-.084	-.047
7	*000.000	*000.000	*000.000	-2.658	-2.127	-.602	-.559
8	*000.000	*000.000	*000.000	-3.430	-2.993	-.453	-.533
9	*000.000	*000.000	*000.000	-3.268	-3.362	-.463	-.590
10	-2.281	-2.809	-2.765	-1.991	-1.942	-.369	-.369
11	-1.890	-2.148	*000.000	-1.514	-.979	-.363	-.445
12	-1.799	-1.627	-1.258	-.900	-.580	-.286	-.427
13	-1.894	-1.718	-1.215	-.688	-.585	-.273	-.357
14	-2.146	-1.904	-1.319	-.656	-.497	-.337	-.462
15	-1.369	-1.312	-.276	.021	.036	.073	-.216
16	-3.200	-3.669	-2.509	-1.001	-.890	-.679	-.685
17	-3.955	-5.485	-4.061	-1.607	-1.329	-.818	-.861
18	-5.134	-6.284	-4.620	-1.686	-1.120	-.797	-.786
19	-4.342	-5.646	-4.385	-1.503	-1.188	-.685	-.784
20	-3.451	-4.715	-3.433	-.964	-.682	-.583	-.703
21	-2.704	-3.702	-2.707	-.711	-.586	-.628	-.512
22	-1.933	-2.222	-1.937	-.650	-.645	-.522	-.540
23	-1.589	-1.023	-.652	-.468	-.658	-.623	-.617
24	-1.443	-.560	-.180	-.333	-.352	-.304	-.344
25	.501	-.517	-1.986	-.945	-.908	-1.004	-.771
26	1.061	1.234	.878	.711	*000.000	.265	-.278
27	.530	1.261	1.254	1.059	.729	.321	.299
28	.024	.763	.906	.897	.536	.402	.350
29	-.201	.609	.759	.684	.444	.421	.385
30	-.250	.964	.991	.643	.711	.611	.009
31	.308	1.273	1.241	.690	.898	.747	.014
32	.460	1.112	1.177	.609	.779	.715	.316
33	.178	.716	.998	.547	.464	.405	.122

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.812	-3.927	-5.665	-5.100	-4.194	-.902	-.876
2	-3.458	-5.277	-6.418	-6.364	-4.121	-.573	-.505
3	-3.504	-5.345	-6.074	-6.425	-4.720	-.562	-.503
4	-3.964	-5.266	-5.656	-5.586	-3.628	-.439	-.417
5	-3.605	-4.543	-4.467	-4.237	-2.890	-.406	-.413
6	*000.000	*000.000	*000.000	-.099	-.378	-.090	-.109
7	*000.000	*000.000	*000.000	-2.243	-1.776	-.516	-.555
8	*000.000	*000.000	*000.000	-2.866	-2.394	-.554	-.642
9	*000.000	*000.000	*000.000	-2.154	-1.640	-.337	-.448
10	-2.497	-2.855	-2.347	-1.226	-.962	-.346	-.335
11	-1.887	-2.175	*000.000	-1.094	-.518	-.329	-.349
12	-1.482	-1.429	-.938	-.615	-.320	-.306	-.396
13	-1.888	-1.243	-.743	-.485	-.317	-.283	-.352
14	-2.218	-1.783	-1.146	-.513	-.390	-.343	-.398
15	-1.415	-1.241	-.179	.005	-.065	-.007	-.132
16	-3.405	-3.280	-2.128	-.849	-.789	-.688	-.745
17	-4.503	-5.028	-3.216	-.742	-.884	-.550	-.716
18	-5.764	-5.348	-3.431	-.847	-.912	-.757	-.897
19	-4.682	-4.872	-3.072	-.721	-.878	-.743	-.817
20	-3.710	-3.729	-2.662	-.636	-.669	-.576	-.752
21	-2.859	-2.411	-1.676	-.614	-.733	-.632	-.731
22	-1.763	-1.610	-1.359	-.553	-.557	-.575	-.504
23	-1.402	-.583	-.614	-.414	-.426	-.373	-.305
24	-.724	-.284	-.342	-.337	-.329	-.277	-.301
25	.465	-.714	-2.279	-1.000	-1.731	-.996	-.657
26	1.032	1.223	.754	.751	*000.000	.297	-.289
27	.409	1.305	1.269	1.032	.679	.254	.296
28	.002	.714	.874	.821	.461	.373	.369
29	-.297	.540	.725	.644	.394	.427	.387
30	-.263	.920	.933	.547	.627	.567	.071
31	.337	1.293	1.256	.625	.807	.655	.042
32	.378	1.071	1.097	.756	.489	.578	.252
33	.192	.665	.869	.735	.383	.352	.142

Table 14. - Continued.

(d) $C_{T,S} = 0.30$, $q_s = 19.42$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.009	1.086	.454	.662	1.121	1.136	.987
2	.570	.537	-.066	.688	.934	1.012	.881
3	.318	.163	-.428	.436	.734	.755	.691
4	-.089	-.277	-.662	.317	.364	.418	.300
5	-.526	-.786	-1.132	-.181	-.077	.017	-.011
6	*000.000	*000.000	*000.000	-.093	.055	.030	-.059
7	*000.000	*000.000	*000.000	-.783	-.542	-.350	-.516
8	*000.000	*000.000	*000.000	-2.002	-1.902	-1.686	-1.621
9	*000.000	*000.000	*000.000	-2.699	-2.753	-2.292	-2.188
10	-.808	-1.158	-1.553	-3.017	-2.192	-1.869	-1.861
11	-1.028	-1.477	*000.000	-1.988	-2.053	-1.751	-1.704
12	-1.559	-1.158	-1.160	-1.340	-1.428	-1.156	-1.163
13	-.824	-1.145	-1.075	-1.057	-1.147	-.963	-.970
14	-1.046	-1.124	-.970	-.976	-1.030	-.982	-.862
15	-.585	-.816	-.285	-.244	-.272	-.246	-.266
16	-2.498	-2.647	-1.873	-1.742	-1.791	-2.069	-1.440
17	-3.562	-3.637	-2.516	-2.131	-2.131	-2.087	-1.850
18	-3.962	-3.757	-2.764	-2.487	-2.699	-2.373	-1.894
19	-3.989	-3.553	-2.544	-2.319	-2.270	-2.387	-1.833
20	-3.212	-2.303	-1.332	-1.679	-1.304	-1.700	-1.380
21	-2.719	-1.443	-.633	-.975	-.560	-.759	-.868
22	-1.948	-.607	-.560	-.464	-.428	-.528	-.514
23	-1.210	-.551	-.508	-.433	-.382	-.398	-.409
24	-1.078	-.522	-.496	-.451	-.296	-.405	-.464
25	.875	.991	.647	.405	.702	.480	.465
26	.123	.251	.541	.017	*000.000	.054	.277
27	-.235	-.042	.133	.037	.048	.193	.009
28	-.135	-.022	.192	.307	.168	.307	.401
29	.128	.401	.380	.543	.631	.601	.492
30	.267	.801	.524	.590	.612	.608	-.069
31	.805	1.210	.633	.613	.788	.781	.259
32	.836	1.139	.609	.938	.856	.915	.643
33	.627	.831	.488	.811	.880	.858	.718

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.868	.822	-.317	.582	1.019	1.001	.886
2	.047	-.196	-1.138	-.091	.337	.492	.486
3	-.284	-.634	-1.594	-.195	-.040	.261	.246
4	-.608	-1.032	-1.679	-.446	-.198	-.155	-.156
5	-1.020	-1.545	-1.977	-.783	-.614	-.514	-.410
6	*000.000	*000.000	*000.000	-.108	-.051	-.067	-.006
7	*000.000	*000.000	*000.000	-1.346	-1.067	-.994	-.921
8	*000.000	*000.000	*000.000	-2.408	-2.286	-2.128	-2.118
9	*000.000	*000.000	*000.000	-3.856	-4.014	-3.584	-3.324
10	-1.122	-1.631	-2.064	-3.795	-2.951	-2.642	-2.492
11	-1.168	-1.674	*000.000	-2.056	-2.259	-1.957	-1.867
12	-1.810	-1.297	-1.265	-1.402	-1.632	-1.452	-1.368
13	-1.009	-1.226	-1.113	-1.105	-1.300	-1.203	-1.127
14	-1.277	-1.318	-1.103	-1.157	-1.357	-1.186	-.969
15	-.774	-.964	-.114	-.317	-.396	-.434	-.258
16	-2.524	-2.489	-1.768	-1.991	-2.231	-2.090	-1.369
17	-4.182	-4.268	-3.083	-2.799	-3.361	-2.765	-2.246
18	-4.814	-4.363	-3.590	-2.800	-3.192	-2.870	-2.317
19	-4.363	-3.672	-2.504	-2.607	-3.095	-2.723	-1.903
20	-3.881	-2.689	-1.465	-1.981	-1.938	-2.064	-1.294
21	-2.904	-1.501	-.898	-1.693	-1.532	-1.176	-1.081
22	-2.130	-.678	-.547	-.792	-.343	-.641	-.715
23	-1.310	-.547	-.464	-.374	-.340	-.399	-.414
24	-1.243	-.648	-.478	-.460	-.408	-.523	-.572
25	1.120	1.328	.460	.746	.999	.928	.883
26	.606	.858	.689	.041	*000.000	-.001	.223
27	.046	.284	.476	.516	-.007	.031	.274
28	-.013	.212	.466	.692	.956	.908	.575
29	.121	.480	.543	.659	.687	.657	.570
30	.231	.855	.654	.806	.766	.736	-.058
31	.832	1.395	.860	1.151	1.128	1.021	.693
32	.807	1.184	.757	1.060	1.048	.961	.949
33	.569	.849	.529	.858	.815	.713	.666

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.438	.180	-1.620	-.152	.438	.660	.499
2	-.529	-1.084	-2.392	-1.109	-.497	-.292	-.331
3	-.922	-1.574	-2.718	-1.314	-.962	-.615	-.595
4	-1.378	-2.172	-2.999	-1.769	-1.367	-1.108	-1.106
5	-1.338	-2.014	-2.436	-1.572	-1.333	-1.178	-1.154
6	*000.000	*000.000	*000.000	-.067	.050	.009	-.062
7	*000.000	*000.000	*000.000	-2.027	-1.671	-1.560	-1.573
8	*000.000	*000.000	*000.000	-3.250	-3.212	-2.873	-2.860
9	*000.000	*000.000	*000.000	-4.293	-4.564	-4.055	-3.941
10	-1.421	-2.162	-2.595	-4.682	-3.653	-3.293	-3.183
11	-1.204	-1.795	*000.000	-2.065	-2.338	-2.008	-2.023
12	-2.059	-1.474	-1.423	-1.436	-1.736	-1.550	-1.506
13	-1.212	-1.399	-1.257	-1.205	-1.370	-1.285	-1.218
14	-1.682	-1.549	-1.310	-1.279	-1.436	-1.340	-1.203
15	-.862	-1.056	-.243	-.287	-.369	-.438	-.295
16	-3.094	-2.990	-2.155	-2.196	-2.550	-2.498	-1.686
17	-4.373	-4.214	-3.082	-2.580	-3.137	-2.731	-2.147
18	-4.640	-4.281	-3.521	-2.608	-3.556	-3.267	-2.468
19	-4.756	-3.896	-2.737	-2.741	-3.135	-3.239	-2.080
20	-3.810	-2.834	-1.855	-1.963	-1.475	-1.921	-1.517
21	-3.064	-1.878	-1.274	-1.423	-.829	-1.700	-1.267
22	-2.053	-.854	-.574	-.881	-.501	-.381	-.751
23	-1.360	-.709	-.591	-.441	-.322	-.439	-.630
24	-1.326	-.738	-.597	-.364	-.180	-.293	-.706
25	1.125	1.227	-.088	.631	1.087	1.035	.937
26	.883	1.168	.784	.021	*000.000	-.326	.202
27	.336	.611	.743	.848	.826	.527	.665
28	.112	.355	.588	.766	.795	.728	.553
29	.119	.552	.616	.787	.711	.669	.631
30	.250	.958	.834	.827	.850	.862	-.100
31	.725	1.289	1.039	1.052	1.038	1.016	.538
32	.797	1.172	.917	1.042	.984	.967	.904
33	.644	.916	.749	.921	.841	.768	.549

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.109	-.615	-2.659	-.995	-.309	.139	-.012
2	-1.193	-2.153	-3.719	-2.331	-1.542	-.959	-1.045
3	-1.668	-2.883	-4.282	-2.949	-2.304	-1.639	-1.714
4	-1.885	-2.913	-3.819	-2.697	-2.120	-1.641	-1.642
5	-2.049	-3.185	-3.696	-2.677	-2.362	-2.030	-2.001
6	*000.000	*000.000	*000.000	-.084	.039	-.087	-.199
7	*000.000	*000.000	*000.000	-2.430	-2.219	-1.983	-1.951
8	*000.000	*000.000	*000.000	-3.856	-3.891	-3.502	-3.451
9	*000.000	*000.000	*000.000	-4.340	-4.803	-4.359	-4.202
10	-1.591	-2.338	-2.766	-4.555	-3.651	-3.343	-3.262
11	-1.425	-2.021	*000.000	-2.207	-2.425	-2.187	-2.125
12	-2.160	-1.565	-1.509	-1.442	-1.527	-1.431	-1.339
13	-1.385	-1.492	-1.288	-1.090	-.986	-1.068	-1.035
14	-1.909	-1.588	-1.285	-1.056	-.919	-1.002	-.959
15	-1.179	-1.142	-.234	-.248	-.211	-.246	-.349
16	-3.606	-3.232	-2.411	-2.001	-1.609	-1.761	-1.452
17	-5.332	-4.812	-3.613	-2.426	-1.954	-2.125	-1.899
18	-5.289	-4.849	-3.866	-2.286	-1.913	-2.238	-2.005
19	-5.099	-4.621	-3.430	-2.469	-1.391	-2.201	-1.697
20	-4.034	-3.728	-3.091	-1.792	-.913	-1.396	-1.487
21	-3.174	-2.220	-1.354	-1.379	-.811	-1.055	-1.110
22	-2.280	-1.270	-.748	-.857	-.525	-.576	-.799
23	-1.629	-.803	-.605	-.411	-.482	-.363	-.545
24	-1.415	-.719	-.561	-.397	-.344	-.248	-.212
25	1.021	.992	-.925	.508	.900	.991	.740
26	1.098	1.293	.806	.246	*000.000	-.079	.046
27	.496	.815	.840	1.007	.702	.963	.832
28	.213	.577	.740	1.060	.892	.812	.696
29	.170	.664	.745	.800	.776	.721	.628
30	.105	1.056	.961	.957	.854	.888	-.150
31	.628	1.340	1.207	1.092	1.026	1.034	.691
32	.754	1.210	1.029	1.060	.996	.952	.787
33	.580	.885	.862	.966	.809	.727	.449

Table 14.- Concluded.

(d) $C_{T,S} = 0.30$, $q_S = 19.42$

$\alpha = 25°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-.903	-2.060	-4.381	-2.493	-1.654	-.633	-1.232
2	-2.423	-3.786	-5.779	-3.905	-2.817	-1.884	-2.047
3	-2.607	-4.329	-5.790	-4.479	-3.622	-2.437	-2.516
4	-2.806	-4.398	-5.463	-4.343	-3.497	-2.504	-2.568
5	-2.561	-3.870	-4.303	-3.352	-2.874	-2.368	-2.349
6	*000.000	*000.000	*000.000	-.109	-.063	-.142	-.298
7	*000.000	*000.000	*000.000	-2.712	-2.400	-2.121	-2.158
8	*000.000	*000.000	*000.000	-4.374	-4.319	-3.845	-3.852
9	*000.000	*000.000	*000.000	-4.815	-5.365	-4.590	-4.434
10	-1.946	-2.773	-3.120	-4.686	-3.859	-3.416	-3.323
11	-1.659	-2.315	*000.000	-2.520	-2.579	-2.194	-2.172
12	-2.326	-1.740	-1.591	-1.556	-1.556	-1.460	-1.401
13	-1.791	-1.801	-1.488	-1.237	-1.131	-1.177	-1.170
14	-2.681	-2.028	-1.562	-1.206	-1.029	-1.070	-1.003
15	-1.487	-1.243	-.381	-.210	-.247	-.262	-.419
16	-4.247	-4.163	-3.208	-1.932	-1.651	-1.870	-1.613
17	-5.903	-5.968	-4.538	-2.313	-1.740	-2.082	-1.810
18	-6.169	-6.408	-5.001	-2.437	-1.667	-2.281	-2.040
19	-5.390	-5.289	-4.413	-2.128	-1.366	-2.463	-2.074
20	-4.568	-4.712	-3.355	-1.708	-.973	-1.496	-1.546
21	-3.179	-3.221	-2.268	-1.244	-.930	-1.094	-1.265
22	-2.685	-1.990	-1.122	-.900	-.671	-.680	-.951
23	-2.290	-1.264	-.542	-.357	-.451	-.383	-.696
24	-2.051	-1.071	-.476	-.362	-.447	-.394	-.423
25	.783	.419	-1.636	.056	.573	.922	.300
26	1.191	1.391	.851	.707	*000.000	.353	-.069
27	.747	1.170	1.149	1.134	1.020	.874	.786
28	.304	.746	.920	1.129	.934	.833	.609
29	.096	.761	.810	.872	.831	.747	.619
30	-.071	1.133	1.056	1.043	.912	.897	-.048
31	.507	1.474	1.404	1.224	1.088	1.101	.412
32	.647	1.257	1.229	1.109	.998	.946	.725
33	.559	.935	1.042	.993	.828	.715	.456

$\alpha = 30°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-1.732	-3.518	-5.884	-3.983	-2.652	-1.141	-2.087
2	-3.068	-4.931	-6.600	-5.283	-4.145	-2.660	-3.128
3	-3.726	-6.024	-7.436	-6.093	-4.817	-3.092	-3.307
4	-3.418	-5.178	-6.155	-4.969	-3.994	-2.978	-2.909
5	-3.054	-4.636	-4.930	-3.987	-3.405	-2.531	-2.329
6	*000.000	*000.000	*000.000	-.165	-.142	-.112	-.314
7	*000.000	*000.000	*000.000	-3.010	-2.651	-2.174	-2.333
8	*000.000	*000.000	*000.000	-4.822	-4.831	-4.050	-4.072
9	*000.000	*000.000	*000.000	-5.337	-6.197	-5.142	-4.888
10	-2.455	-3.531	-3.806	-4.941	-4.369	-3.536	-3.344
11	-1.772	-2.460	*000.000	-2.516	-2.467	-1.741	-1.661
12	-2.274	-1.816	-1.566	-1.545	-1.556	-1.143	-1.086
13	-2.157	-2.017	-1.554	-1.273	-1.303	-1.161	-1.059
14	-3.005	-2.187	-1.571	-1.216	-1.345	-1.123	-1.014
15	-2.016	-1.410	-.446	-.272	-.363	-.349	-.395
16	-4.608	-4.339	-2.988	-1.890	-2.452	-2.450	-1.649
17	-6.090	-6.228	-4.230	-2.388	-3.261	-2.833	-1.860
18	-6.632	-6.539	-4.711	-2.389	-3.443	-3.602	-2.271
19	-5.775	-5.902	-4.403	-2.174	-3.244	-3.303	-2.243
20	-5.112	-5.404	-3.002	-1.418	-2.192	-2.683	-1.732
21	-4.389	-4.271	-2.363	-1.139	-1.760	-1.944	-1.412
22	-3.376	-2.768	-1.469	-.833	-.920	-1.183	-1.156
23	-2.114	-1.329	-.428	-.382	-.387	-.477	-.594
24	-2.323	-.867	-.451	-.368	-.267	-.362	-.566
25	.368	-.316	-2.224	-.409	-.059	.584	-.464
26	1.242	1.359	.872	.845	*000.000	.462	-.141
27	.927	1.274	1.302	1.163	.949	.728	.683
28	.389	.827	1.027	1.091	.980	.756	.610
29	.097	.763	.865	.881	.835	.737	.628
30	-.113	1.086	1.042	.920	.876	.878	.018
31	.485	1.544	1.493	1.246	1.189	1.143	.450
32	.688	1.315	1.282	1.139	1.110	1.013	.723
33	.579	1.010	1.136	1.059	.941	.762	.562

$\alpha = 35°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-2.825	-4.810	-6.724	-4.732	-3.528	-2.722	-3.083
2	-4.329	-6.701	-8.035	-6.601	-5.068	-3.796	-3.834
3	-4.784	-7.010	-7.865	-6.199	-5.275	-3.998	-4.009
4	-4.397	-6.460	-7.187	-5.654	-4.938	-3.779	-3.825
5	-3.663	-5.207	-5.175	-3.857	-3.510	-2.778	-2.663
6	*000.000	*000.000	*000.000	-.124	-.216	-.339	-.397
7	*000.000	*000.000	*000.000	-2.273	-2.471	-2.014	-2.080
8	*000.000	*000.000	*000.000	-3.341	-4.378	-3.642	-3.772
9	*000.000	*000.000	*000.000	-1.988	-4.179	-3.610	-3.517
10	-2.496	-3.417	-3.349	-1.241	-3.041	-2.688	-2.609
11	-1.812	-2.407	*000.000	-1.253	-1.517	-1.562	-1.448
12	-2.144	-1.807	-1.554	-1.427	-1.313	-1.043	-.974
13	-2.214	-1.451	-1.075	-1.027	-1.091	-.853	-.793
14	-2.532	-1.492	-1.062	-1.095	-1.260	-.923	-.860
15	-1.683	-1.535	-.239	-.200	-.300	-.199	-.144
16	-3.920	-3.452	-2.459	-1.852	-2.003	-2.112	-1.587
17	-4.690	-4.883	-2.891	-1.803	-1.727	-2.404	-1.963
18	-5.006	-4.533	-2.580	-1.643	-1.924	-2.601	-1.954
19	-3.512	-4.653	-2.948	-1.666	-1.465	-3.337	-1.952
20	-2.864	-2.733	-1.602	-1.260	-1.266	-2.185	-1.774
21	-2.634	-2.024	-1.314	-.810	-.922	-1.352	-1.255
22	-2.775	-1.624	-1.131	-.636	-.730	-1.067	-1.080
23	-2.527	-.705	-.569	-.430	-.446	-.425	-.822
24	-1.418	-.556	-.563	-.569	-.628	-.535	-.433
25	-.363	-1.482	-3.231	-1.404	-.801	-1.064	-1.286
26	1.225	1.228	.788	.901	*000.000	.567	-.298
27	1.055	1.425	1.371	1.148	.921	.630	.676
28	.462	.999	1.146	1.080	.987	.675	.649
29	.072	.833	.952	.982	.806	.675	.624
30	-.142	1.154	1.105	1.007	.809	.830	-.071
31	.390	1.359	1.335	1.075	1.046	.988	.437
32	.570	1.326	1.366	1.145	1.077	.946	.713
33	.461	.885	1.073	.867	.807	.607	.364

$\alpha = 40°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-2.436	-4.192	-6.557	-4.595	-3.708	-2.309	-3.094
2	-3.951	-6.290	-8.146	-6.413	-4.881	-3.119	-3.400
3	-4.165	-6.584	-7.928	-6.608	-5.155	-3.333	-3.470
4	-4.016	-6.174	-7.244	-6.211	-5.049	-3.642	-3.566
5	-3.478	-5.156	-5.570	-4.756	-3.963	-2.977	-2.805
6	*000.000	*000.000	*000.000	-.256	-.251	-.195	-.350
7	*000.000	*000.000	*000.000	-3.513	-3.183	-2.390	-2.519
8	*000.000	*000.000	*000.000	-4.622	-4.617	-3.442	-3.487
9	*000.000	*000.000	*000.000	-4.908	-5.856	-4.415	-4.184
10	-2.386	-3.407	-3.612	-3.765	-3.870	-2.843	-2.658
11	-1.982	-2.668	*000.000	-2.538	-2.409	-1.612	-1.506
12	-2.124	-1.732	-1.432	-1.472	-1.335	-.989	-.904
13	-2.307	-1.977	-1.464	-1.167	-1.178	-1.008	-.893
14	-3.139	-2.105	-1.554	-1.140	-1.265	-1.148	-.959
15	-1.903	-1.431	-.438	-.174	-.331	-.239	-.261
16	-4.711	-4.407	-3.044	-1.652	-2.326	-2.244	-1.553
17	-5.578	-6.132	-3.972	-2.337	-3.339	-3.060	-2.118
18	-6.024	-6.310	-4.370	-2.075	-3.415	-3.271	-1.941
19	-5.691	-6.527	-4.112	-2.156	-3.729	-3.638	-1.874
20	-4.871	-5.251	-2.945	-1.659	-2.649	-2.639	-1.649
21	-3.584	-3.778	-2.469	-1.286	-2.448	-2.202	-1.496
22	-3.362	-2.530	-1.645	-.766	-1.360	-1.578	-1.182
23	-2.466	-1.130	-.423	-.401	-.367	-.451	-.820
24	-2.193	-.340	-.452	-.274	-.323	-.329	-.470
25	.013	-.984	-3.212	-1.170	-.538	.045	-1.146
26	1.245	1.331	.835	.833	*000.000	.657	-.194
27	.995	1.431	1.408	1.216	.964	.712	.740
28	.475	.989	1.153	1.194	1.015	.746	.687
29	.060	.824	.932	.960	.839	.729	.652
30	-.266	1.098	1.062	1.022	.885	.837	.003
31	.367	1.407	1.359	1.204	1.060	1.002	.309
32	.634	1.380	1.377	1.266	1.157	1.048	.784
33	.532	.966	1.144	1.043	.888	.701	.493

Table 15.- Pressure coefficients for wing with propeller rotation up at tip, basic leading edge, $\delta_f = 0°$.

(a) $C_{T,s} = 0.90$, $q_s = 20.20$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.002	.979	.849	.090	.668	.922	.138
2	-.007	.340	.285	.715	1.175	1.132	.047
3	-.005	.121	-.004	.764	1.194	.967	.102
4	-.002	-.267	-.339	.960	.985	.610	-.050
5	-.005	-.572	-.649	1.043	.573	.197	-.099
6	.000	.000	.000	.000	.000	.000	.000
7	.000	.000	.000	.000	.000	.000	.000
8	.000	.000	.000	.000	.000	.000	.000
9	.000	.000	.000	.000	.000	.000	.000
10	-.002	-.638	-.923	0.	-.091	-.033	-.157
11	-.002	-.690	.000	-.275	-.451	-.347	-.199
12	.441	-.363	-.426	-.230	-.365	-.225	-.037
13	-.005	-.171	-.212	-.119	-.224	-.192	-.053
14	-.002	-.100	-.096	-.098	-.105	-.153	-.103
15	.000	.000	.000	.000	.000	.000	.000
16	.000	.000	.000	.000	.000	.000	.000
17	.000	.000	.000	.000	.000	.000	.000
18	.000	.000	.000	.000	.000	.000	.000
19	.000	.000	.000	.000	.000	.000	.000
20	.000	.000	.000	.000	.000	.000	.000
21	.000	.000	.000	.000	.000	.000	.000
22	.000	.000	.000	.000	.000	.000	.000
23	.051	-.009	.074	.067	-.080	-.027	-.050
24	-.002	.145	.217	.245	.167	.017	-.019
25	-.009	1.070	.940	-2.738	-.575	-.041	.103
26	0.	.781	.726	-2.735	.000	-.751	.088
27	-.005	.078	.093	-1.483	-1.260	-.770	.015
28	1.401	-.018	-.023	-.208	-.621	-.293	-.022
29	-.005	.046	.056	.160	-.060	-.053	.049
30	.000	.000	.000	.000	.000	.000	.000
31	-.002	.136	.185	.238	.085	.025	.159
32	-.007	.119	.209	.195	.151	.060	-.006
33	.505	.171	.221	.309	.217	.176	.128

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.002	.822	.654	-.045	.858	1.081	.019
2	.317	.071	-.007	.671	1.213	1.080	.005
3	0.	-.218	-.187	.791	1.183	.941	-.131
4	.002	-.540	-.528	.979	.966	.620	-.262
5	0.	-.776	-.766	.688	.481	.125	-.182
6	.000	.000	.000	.000	.000	.000	.000
7	.000	.000	.000	.000	.000	.000	.000
8	.000	.000	.000	.000	.000	.000	.000
9	.000	.000	.000	.000	.000	.000	.000
10	.742	-.791	-.476	-.118	-.243	-.131	-.241
11	1.042	-.770	.000	-.337	-.501	-.371	-.327
12	0.	-.597	-.403	-.466	-.360	-.274	-.276
13	-.002	-.268	-.197	-.113	-.223	-.156	-.090
14	.003	-.132	-.099	-.131	-.129	-.180	-.142
15	.000	.000	.000	.000	.000	.000	.000
16	.000	.000	.000	.000	.000	.000	.000
17	.000	.000	.000	.000	.000	.000	.000
18	.000	.000	.000	.000	.000	.000	.000
19	.000	.000	.000	.000	.000	.000	.000
20	.000	.000	.000	.000	.000	.000	.000
21	.000	.000	.000	.000	.000	.000	.000
22	.000	.000	.000	.000	.000	.000	.000
23	0.	-.052	.072	-.025	-.032	.027	-.198
24	-.002	.100	.208	.104	.214	.019	-.073
25	.002	1.112	.963	-2.268	-.597	-.033	.113
26	0.	.883	.905	-2.248	.000	-.573	.151
27	0.	.248	.365	-1.324	-1.126	-.609	-.005
28	.005	.029	.140	-.213	-.504	-.205	-.009
29	.002	.037	.143	.060	-.095	.013	-.041
30	.000	.000	.000	.000	.000	.000	.000
31	0.	.100	.208	.142	.126	.098	-.033
32	.002	.088	.276	.153	.134	.037	-.112
33	.002	.104	.270	.256	.230	.148	.029

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.002	.649	.165	-.078	1.013	1.154	-.130
2	0.	-.108	-.402	.741	1.185	1.010	-.178
3	-.002	-.412	-.588	.928	1.085	.875	-.246
4	.449	-.771	-.985	.918	.778	.467	-.303
5	0.	-1.042	-1.127	.679	.312	.101	-.374
6	.000	.000	.000	.000	.000	.000	.000
7	.000	.000	.000	.000	.000	.000	.000
8	.000	.000	.000	.000	.000	.000	.000
9	.000	.000	.000	.000	.000	.000	.000
10	.003	-.889	-1.137	-.058	-.362	-.180	-.253
11	-.002	-.788	.000	-.324	-.567	-.405	-.278
12	.422	-.363	-.413	-.327	-.374	-.251	-.212
13	.634	-.218	-.196	-.081	-.220	-.124	-.114
14	-.002	-.131	-.095	-.083	-.145	-.134	-.150
15	.000	.000	.000	.000	.000	.000	.000
16	.000	.000	.000	.000	.000	.000	.000
17	.000	.000	.000	.000	.000	.000	.000
18	.000	.000	.000	.000	.000	.000	.000
19	.000	.000	.000	.000	.000	.000	.000
20	.000	.000	.000	.000	.000	.000	.000
21	.000	.000	.000	.000	.000	.000	.000
22	.000	.000	.000	.000	.000	.000	.000
23	.763	-.051	.041	.003	-.045	-.073	-.211
24	-.002	.104	.170	.213	.226	.073	-.050
25	-.010	1.149	.945	-1.703	-.384	.237	-.009
26	-.002	.998	.914	-1.748	.000	-.431	.177
27	-.003	.433	.473	-1.071	-.999	-.657	.001
28	.760	.150	.244	-.162	-.434	-.204	-.061
29	-.002	.106	.164	.070	-.067	.030	.084
30	.000	.000	.000	.000	.000	.000	.000
31	-.002	.133	.212	.200	.092	.078	.045
32	0.	.139	.249	.265	.101	.079	-.063
33	1.462	.150	.237	.274	.188	.128	.009

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	0.	.187	-.309	.172	1.086	1.147	.010
2	0.	-.586	-1.030	.774	1.077	.889	-.221
3	-.002	-.880	-1.056	.743	.944	.718	-.246
4	-.002	-1.144	-1.426	.769	.627	.319	-.443
5	0.	-1.247	-1.342	.445	.137	-.101	-.349
6	.000	.000	.000	.000	.000	.000	.000
7	.000	.000	.000	.000	.000	.000	.000
8	.000	.000	.000	.000	.000	.000	.000
9	.000	.000	.000	.000	.000	.000	.000
10	-.002	-.995	-1.240	-.111	-.460	-.307	-.226
11	-.007	-.815	.000	-.422	-.620	-.537	-.335
12	0.	-.395	-.430	-.374	-.408	-.323	-.153
13	0.	-.242	-.180	-.133	-.243	-.209	-.086
14	-.002	-.165	-.087	-.085	-.139	-.171	-.178
15	.000	.000	.000	.000	.000	.000	.000
16	.000	.000	.000	.000	.000	.000	.000
17	.000	.000	.000	.000	.000	.000	.000
18	.000	.000	.000	.000	.000	.000	.000
19	.000	.000	.000	.000	.000	.000	.000
20	.000	.000	.000	.000	.000	.000	.000
21	.000	.000	.000	.000	.000	.000	.000
22	.000	.000	.000	.000	.000	.000	.000
23	0.	-.075	.032	.009	-.029	-.099	-.009
24	.002	.072	.163	.171	.217	.089	0.
25	1.536	1.073	.040	-1.263	-.198	-.351	.110
26	-.002	1.026	.911	-1.407	.000	-.235	.359
27	.002	.552	.603	-.891	-.836	-.620	.048
28	0.	.210	.336	-.221	-.428	-.231	.001
29	-.002	.103	.141	.070	-.061	.011	.042
30	.000	.000	.000	.000	.000	.000	.000
31	.002	.158	.223	.191	.099	.033	.127
32	0.	.128	.250	.216	.142	.060	.033
33	.384	.135	.212	.208	.164	.103	.091

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.005	-.147	-.954	.402	1.229	1.226	-.233
2	-.007	-.963	-1.508	.750	1.060	.889	-.453
3	-.002	-1.134	-1.505	.693	.817	.636	-.430
4	-.002	-1.534	-1.887	.617	.521	.229	-.476
5	-.005	-1.494	-1.613	.317	.030	-.188	-.546
6	.000	.000	.000	.000	.000	.000	.000
7	.000	.000	.000	.000	.000	.000	.000
8	.000	.000	.000	.000	.000	.000	.000
9	.000	.000	.000	.000	.000	.000	.000
10	-.002	-1.013	-1.285	-.127	-.476	-.329	-.362
11	.033	-.434	.000	-.383	-.576	-.475	-.301
12	.398	-.437	-.411	-.364	-.396	-.322	-.198
13	0.	-.280	-.193	-.135	-.196	-.206	-.103
14	.077	-.192	-.041	-.086	-.119	-.170	-.134
15	.000	.000	.000	.000	.000	.000	.000
16	.000	.000	.000	.000	.000	.000	.000
17	.000	.000	.000	.000	.000	.000	.000
18	.000	.000	.000	.000	.000	.000	.000
19	.000	.000	.000	.000	.000	.000	.000
20	.000	.000	.000	.000	.000	.000	.000
21	.000	.000	.000	.000	.000	.000	.000
22	.000	.000	.000	.000	.000	.000	-.043
23	.487	-.086	.055	.013	.014	-.058	-.045
24	.440	.072	.179	.180	.256	.153	-.199
25	2.385	.962	.371	-.763	.137	.477	.166
26	-.003	1.105	.901	-.927	.000	-.068	.052
27	0.	.650	.752	-.703	-.629	-.506	.032
28	-.005	.308	.389	-.195	-.303	-.209	-.008
29	-.005	.155	.252	.121	.012	.026	.086
30	.000	.000	.000	.000	.000	.000	.000
31	0.	.181	.302	.234	.127	.139	.086
32	-.002	.123	.277	.245	.155	.131	-.061
33	-.002	.148	.255	.221	.196	.107	.029

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.494	-.365	-1.297	.503	1.140	1.244	-.270
2	0.	-1.469	-2.057	.450	.975	.886	-.289
3	.446	-1.625	-2.137	.695	.739	.556	-.427
4	0.	-1.677	-2.063	.514	.310	.148	-.576
5	.003	-1.436	-1.965	.226	-.136	-.288	-.490
6	.000	.000	.000	.000	.000	.000	.000
7	.000	.000	.000	.000	.000	.000	.000
8	.000	.000	.000	.000	.000	.000	.000
9	.000	.000	.000	.000	.000	.000	.000
10	.005	-1.196	-1.416	-.219	-.640	-.336	-.246
11	.003	-.961	.000	-.478	-.725	-.531	-.272
12	.002	-.491	-.376	-.341	-.429	-.280	-.133
13	-.003	-.337	-.166	-.131	-.249	-.189	-.119
14	.002	-.241	-.026	-.044	-.145	-.164	-.007
15	.000	.000	.000	.000	.000	.000	.000
16	.000	.000	.000	.000	.000	.000	.000
17	.000	.000	.000	.000	.000	.000	.000
18	.000	.000	.000	.000	.000	.000	.000
19	.000	.000	.000	.000	.000	.000	.000
20	.000	.000	.000	.000	.000	.000	.000
21	.000	.000	.000	.000	.000	.000	.000
22	.000	.000	.000	.000	.000	-.057	.050
23	0.	-.133	.094	-.008	.005	-.096	.074
24	.966	.076	.157	.175	.227	.096	.074
25	2.460	.869	.184	-.554	.393	.650	-.404
26	.002	1.100	.904	-.730	.000	.078	.155
27	0.	.692	.822	-.686	-.525	-.380	.066
28	.002	.342	.475	-.158	-.296	-.124	.071
29	.002	.177	.312	.052	-.003	.063	.100
30	.000	.000	.000	.000	.000	.000	.000
31	1.288	.159	.354	.206	.127	.152	.064
32	.002	.123	.293	.222	.127	.146	.049
33	1.188	.119	.272	.200	.163	.170	.106

Table 15. - Continued.

(a) $C_{T,s} = 0.90$, $q_s = 20.20$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	0.	-.678	-1.877	.454	1.217	1.221	-.199
2	.007	-1.770	-2.581	.695	.875	.738	-.433
3	.310	-2.051	-2.611	.671	.629	.427	-.466
4	.003	-2.148	-2.658	.507	.158	.014	-.240
5	.005	-1.918	-2.095	.181	-.261	-.328	-.434
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	.002	-1.233	-1.470	-.229	-.713	-.337	-.181
11	.003	-.996	*000.000	-.529	-.784	-.529	-.214
12	0.	-.546	-.356	-.433	-.477	-.267	-.168
13	.002	-.457	-.153	-.158	-.254	-.208	-.071
14	.380	-.270	-.078	-.164	-.162	-.121	-.065
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	.731	-.156	-.014	-.089	-.021	-.079	-.124
24	0.	.061	.096	.166	.213	.065	-.064
25	2.176	.719	-.255	-.173	.506	.752	-.091
26	0.	1.145	.940	-.390	*000.000	.199	.024
27	.002	.802	.883	-.370	-.433	-.318	.175
28	1.511	.402	.527	-.139	-.264	-.181	-.085
29	-.002	.196	.342	.053	-.034	.049	.062
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	.002	.175	.347	.215	.099	.114	.120
32	0.	.126	.281	.199	.114	.112	.044
33	.002	.144	.251	.271	.171	.130	.157

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.751	-1.221	-2.449	.808	1.231	1.118	-.293
2	-.002	-2.161	-3.158	.736	.723	.625	-.375
3	0.	-2.345	-3.102	.705	.409	.325	-.399
4	-.002	-2.380	-2.833	.409	.037	-.079	-.314
5	-.002	-2.222	-2.424	.097	-.374	-.377	-.192
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.002	-1.357	-1.537	-.270	-.762	-.398	-.146
11	.263	-1.009	*000.000	-.551	-.769	-.501	-.212
12	0.	-.572	-.423	-.411	-.477	-.279	-.204
13	-.002	-.360	-.136	-.121	-.291	-.285	-.114
14	0.	-.270	-.088	-.125	-.129	-.153	-.126
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.002	-.146	-.038	.007	-.039	-.155	-.096
24	0.	.043	.029	.202	.202	-.059	-.078
25	-.005	.447	-.789	.156	.793	.625	-.153
26	-.002	1.073	.806	.111	*000.000	.258	.075
27	-.002	.843	.886	-.293	-.330	-.241	.085
28	.126	.441	.570	-.082	-.205	-.148	.040
29	0.	.216	.345	.074	-.002	.011	.076
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.002	.188	.311	.233	.142	.102	.053
32	-.005	.123	.304	.242	.136	.090	.010
33	0.	.119	.242	.257	.195	.092	.081

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.002	-1.410	-2.701	.816	1.135	1.083	-.516
2	-.002	-2.504	-3.641	.573	.585	.627	-.471
3	-.432	-2.573	-3.497	.663	.257	.256	-.343
4	-.002	-2.585	-3.132	.388	-.089	-.092	-.398
5	-.002	-2.243	-2.447	-.031	-.516	-.355	-.249
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.003	-1.514	-1.585	-.384	-.866	-.334	-.141
11	-.002	-1.028	*000.000	-.625	-.786	-.512	-.249
12	0.	-.542	-.339	-.482	-.455	-.281	-.241
13	.031	-.333	-.142	-.174	-.246	-.132	-.112
14	0.	-.213	-.142	-.138	-.185	-.203	-.104
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.010	-.104	-.078	-.047	-.036	-.112	-.185
24	-.002	-.032	.032	.202	.161	-.173	-.173
25	.073	.272	-.922	.406	.894	.807	-.236
26	-.003	1.040	.830	.349	*000.000	.348	-.033
27	1.446	.442	.987	-.121	-.196	-.333	-.100
28	0.	.495	.620	-.056	-.160	-.129	-.017
29	-.002	.233	.378	.100	.047	.080	.022
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.002	.141	.370	.206	.134	.115	.027
32	-.002	.127	.279	.278	.134	.118	.007
33	-.003	.099	.254	.254	.201	.064	.066

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	0.	-1.898	-3.512	.841	1.254	1.181	-.542
2	-.678	-2.865	-4.029	.721	.491	.510	-.450
3	-.764	-2.953	-3.769	.452	.159	.257	-.420
4	-.003	-2.886	-3.446	.245	-.256	-.219	-.305
5	0.	-2.469	-2.730	-.190	-.606	-.447	-.202
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	.022	-1.540	-1.611	-.436	-.881	-.191	-.005
11	.526	-1.110	*000.000	-.680	-.775	-.399	-.126
12	.184	-.605	-.451	-.547	-.454	-.256	-.123
13	.002	-.363	-.291	-.150	-.221	-.154	0.
14	0.	-.221	-.249	-.181	-.137	-.064	-.066
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	.003	-.154	-.155	-.095	-.029	-.184	-.150
24	0.	-.092	-.116	.237	.170	.004	-.062
25	.948	.002	-1.168	.575	.942	.785	-.301
26	-.002	1.023	.754	.539	*000.000	.415	-.035
27	1.871	.942	.903	.017	-.112	-.282	.124
28	1.555	.511	.593	-.031	-.103	-.030	.143
29	0.	.186	.321	.085	.009	.034	.122
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	1.469	.147	.302	.224	.143	.171	.124
32	0.	.117	.274	.284	.135	.080	.023
33	0.	.064	.163	.262	.166	.104	.080

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	0.	-1.972	-3.464	.685	1.031	.843	-.549
2	0.	-3.043	-4.302	.434	.432	.401	-.563
3	-.067	-3.192	-4.001	.316	-.005	.250	-.190
4	.002	-2.994	-3.629	.096	-.383	-.087	-.191
5	-.005	-2.609	-2.776	-.299	-.731	-.338	-.356
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	0.	-1.634	-1.500	-.541	-.911	-.186	-.114
11	.372	-1.144	*000.000	-.723	-.771	-.387	-.110
12	0.	-.638	-.429	-.629	-.496	-.264	-.171
13	.002	-.366	-.248	-.220	-.225	-.147	-.174
14	0.	-.254	-.180	-.158	-.165	.006	-.086
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.317	-.137	-.103	-.084	-.066	-.149	-.055
24	-.002	-.105	.011	.169	.121	-.081	-.080
25	0.	-.143	-1.343	.681	1.015	.768	-.259
26	0.	.957	.717	.540	*000.000	.493	.058
27	.002	.903	.919	.005	-.056	-.197	.044
28	0.	.517	.641	-.051	-.106	-.034	.081
29	.009	.229	.390	.036	.039	.120	.073
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	0.	.177	.354	.187	.131	.141	.205
32	.002	.130	.283	.204	.100	.100	.028
33	0.	.062	.229	.195	.160	-.008	.176

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.690	-2.483	-3.835	.742	1.039	.759	-.238
2	.002	-3.439	-4.384	.288	.370	.511	-.003
3	.002	-3.476	-4.113	.026	-.061	.192	-.242
4	-.005	-3.361	-3.818	-.323	-.385	-.071	-.123
5	0.	-2.756	-2.968	-.517	-.712	-.342	.114
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	.002	-1.702	-1.534	-.699	-.948	-.210	.104
11	.280	-1.256	*000.000	-.827	-.797	-.268	-.080
12	.002	-.668	-.458	-.578	-.418	-.177	-.029
13	0.	-.400	-.309	-.226	-.247	-.149	.106
14	-.019	-.354	-.244	-.174	-.200	-.131	.199
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.155	-.280	-.181	.019	-.120	-.127	.038
24	0.	-.183	-.050	.157	.076	-.110	.108
25	.077	-.391	-1.665	.799	1.091	.762	-.097
26	0.	.909	.681	.785	*000.000	.307	.121
27	.005	.899	.943	.175	-.069	-.163	.262
28	.334	.510	.625	-.021	-.149	-.135	.218
29	0.	.216	.373	.102	.062	.041	.243
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	.919	.145	.330	.241	.162	.101	.252
32	.002	.126	.302	.207	.098	.034	.100
33	.003	.042	.215	.283	.193	.068	.189

Table 15 - Continued.

(a) $C_{T,s} = 0.90$, $q_s = 20.20$

$\alpha = 65°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.005	-2.675	-3.911	.655	1.022	.638	-.263
2	0.	-3.689	-4.529	.142	.345	.375	-.136
3	0.	-3.845	-4.422	-.130	-.005	.236	-.213
4	.005	-3.492	-3.753	-.261	-.263	.287	-.206
5	.002	-3.114	-3.131	-.691	-.751	-.117	-.198
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	0.	-1.830	-1.612	-.749	-.895	-.122	-.254
11	-.012	-1.313	*000.000	-.846	-.654	-.203	-.238
12	-.002	-.714	-.464	-.562	-.357	-.203	-.175
13	-.010	-.502	-.388	-.250	-.268	-.238	-.131
14	0.	-.456	-.317	-.188	-.210	-.120	-.114
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.002	-.396	-.258	.008	-.136	-.190	-.044
24	.002	-.265	-.106	.122	.018	-.112	-.188
25	0.	-.589	-1.615	.951	1.063	.246	-.233
26	.002	.849	.656	.751	*000.000	-.081	-.138
27	0.	.867	.881	.083	-.088	-.315	-.025
28	-.002	.502	.615	.007	-.069	-.075	-.008
29	1.179	.204	.391	.048	.058	-.024	-.004
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	0.	.151	.346	.189	.138	.124	.088
32	.002	.082	.281	.206	.094	.009	-.060
33	0.	.049	.172	.215	.126	-.068	-.019

$\alpha = 70°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	0.	-3.092	-4.248	.776	1.101	.214	-.110
2	0.	-3.930	-4.674	.184	.475	.346	-.138
3	0.	-4.082	-4.533	-.030	.073	.192	-.181
4	0.	-3.857	-4.146	-.356	-.336	.081	-.128
5	-.005	-3.122	-3.053	-.641	-.720	.048	-.208
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.002	-1.985	-1.646	-.814	-.709	.054	-.254
11	0.	-1.420	*000.000	-.814	-.467	-.093	-.197
12	.002	-.717	-.518	-.558	-.329	-.096	-.191
13	0.	-.587	-.432	-.212	-.260	-.143	-.256
14	0.	-.488	-.353	-.116	-.179	-.123	-.406
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	.003	-.461	-.336	-.012	-.206	-.227	-.330
24	.061	-.228	-.125	.046	-.088	-.091	-.412
25	0.	-.723	-1.783	.982	1.032	-.342	-.186
26	.002	.837	.632	.698	*000.000	-.329	-.259
27	0.	.939	.911	.106	-.095	-.428	-.158
28	.002	.490	.580	.031	-.128	-.121	-.223
29	.002	.228	.379	.087	.025	.104	-.083
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	0.	.178	.331	.191	.112	.085	-.224
32	0.	.114	.276	.208	.100	.098	-.063
33	1.060	.076	.147	.244	.091	.105	-.208

$\alpha = 75°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	0.	-3.401	-4.277	.778	1.112	-.053	-.330
2	.005	-4.297	-4.788	.176	.530	.242	-.375
3	-.010	-4.504	-4.562	-.085	.162	.269	-.369
4	-.138	-4.049	-4.115	-.511	-.265	.160	-.156
5	0.	-3.386	-3.086	-.532	-.355	.076	-.294
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	.002	-2.014	-1.553	-.873	-.515	.008	-.297
11	.180	-1.424	*000.000	-.897	-.441	.021	-.177
12	0.	-.826	-.568	-.658	-.364	-.051	-.396
13	-.002	-.639	-.467	-.287	-.258	-.184	-.473
14	0.	-.586	-.411	-.165	-.286	-.214	-.520
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.005	-.479	-.368	-.062	-.175	-.140	-.481
24	0.	-.203	-.131	.017	-.110	-.102	-.339
25	-.010	-.774	-1.699	.720	.921	-.176	-.276
26	.005	.785	.628	.764	*000.000	-.552	-.325
27	.042	.921	.933	.012	-.267	-.298	-.201
28	.002	.489	.627	-.055	-.260	-.099	-.189
29	0.	.183	.400	.073	.005	.036	-.229
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	0.	.146	.353	.167	.071	.054	-.268
32	.131	.094	.314	.193	.074	-.032	-.289
33	.002	.022	.212	.198	.033	.014	-.151

$\alpha = 80°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	0.	-3.898	-4.376	.647	1.052	-.235	-.038
2	-.002	-4.895	-5.019	.176	.623	-.138	.010
3	-2.404	-4.824	-4.727	-.116	.328	-.050	-.094
4	0.	-4.503	-4.244	-.583	-.087	-.086	-.041
5	-.019	-3.648	-3.168	-.671	-.311	-.090	.072
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	0.	-2.144	-1.655	-1.007	-.648	-.056	-.171
11	-.002	-1.385	*000.000	-.877	-.454	-.197	.079
12	0.	-.810	-.582	-.623	-.282	-.194	.037
13	.002	-.661	-.435	-.299	-.225	-.207	.005
14	0.	-.598	-.426	-.245	-.150	-.251	-.194
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	0.	-.437	-.344	-.132	-.166	-.265	-.075
24	0.	-.195	-.122	-.103	-.159	-.190	-.130
25	0.	-1.285	-1.965	.957	.922	-.624	-.078
26	.010	.759	.519	.560	*000.000	-.301	.064
27	.182	.842	.867	.110	-.317	-.325	.165
28	0.	.443	.593	-.015	-.251	-.192	.103
29	-.002	.212	.405	.109	.063	-.117	.099
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	.088	.108	.299	.071	.031	-.152	.018
32	0.	.088	.274	.125	.049	-.094	.201
33	0.	.081	.237	.125	.056	-.129	.180

Table 15. - Continued.

(b) $C_{T,S} = 0.80$, $q_s = 19.97$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.002	.963	.799	-.002	.948	1.053	.208
2	.002	.317	.286	.892	1.217	1.051	.125
3	.002	-.057	-.036	.775	1.092	.850	-.005
4	0.	-.340	-.325	.924	.798	.515	-.079
5	.002	-.643	-.667	.551	.400	.186	-.176
6	.000	.000	.000	.000	.000	.000	.000
7	.000	.000	.000	.000	.000	.000	.000
8	.000	.000	.000	.000	.000	.000	.000
9	.000	.000	.000	.000	.000	.000	.000
10	.005	-.735	-.911	-.073	-.231	-.217	-.140
11	0.	-.738	.000	-.394	-.514	-.327	-.334
12	0.	-.428	-.439	-.387	-.375	-.325	-.192
13	.005	-.222	-.249	-.199	-.208	-.284	-.131
14	0.	-.085	-.016	-.151	-.151	-.128	-.097
15	.000	.000	.000	.000	.000	.000	.000
16	.000	.000	.000	.000	.000	.000	.000
17	.000	.000	.000	.000	.000	.000	.000
18	.000	.000	.000	.000	.000	.000	.000
19	.000	.000	.000	.000	.000	.000	.000
20	.000	.000	.000	.000	.000	.000	.000
21	.000	.000	.000	.000	.000	.000	.000
22	.000	.000	.000	.000	.000	.000	.000
23	.005	-.016	.048	-.074	-.067	-.154	-.013
24	.002	.200	.204	.111	.241	.008	-.018
25	0.	1.090	.835	-1.906	-.189	.017	.173
26	.002	.759	.649	-1.998	.000	-.688	.110
27	0.	.075	.075	-1.168	-1.129	-.842	-.014
28	0.	-.014	.014	-.165	-.481	-.366	-.059
29	0.	.007	.060	.005	-.005	-.006	.069
30	.000	.000	.000	.000	.000	.000	.000
31	.002	.084	.125	.143	.096	.029	.068
32	0.	.114	.202	.208	.150	.073	.017
33	.002	.142	.226	.245	.190	.138	.049

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	0.	.723	.391	-.020	1.146	1.174	.282
2	-.002	-.063	-.192	.768	1.093	.982	-.001
3	0.	-.402	-.415	.768	.969	.863	-.091
4	-.002	-.679	-.731	.912	.857	.600	-.215
5	-.002	-.946	-.941	.545	.180	-.056	-.429
6	.000	.000	.000	.000	.000	.000	.000
7	.000	.000	.000	.000	.000	.000	.000
8	.000	.000	.000	.000	.000	.000	.000
9	.000	.000	.000	.000	.000	.000	.000
10	-.002	-.854	-1.007	-.225	-.445	-.152	-.245
11	-.002	-.794	.000	-.469	-.595	-.465	-.243
12	0.	-.432	-.345	-.458	-.433	-.288	-.276
13	-.002	-.214	-.198	-.031	-.210	-.169	-.173
14	0.	-.120	.040	-.057	-.166	-.097	-.099
15	.000	.000	.000	.000	.000	.000	.000
16	.000	.000	.000	.000	.000	.000	.000
17	.000	.000	.000	.000	.000	.000	.000
18	.000	.000	.000	.000	.000	.000	.000
19	.000	.000	.000	.000	.000	.000	.000
20	.000	.000	.000	.000	.000	.000	.000
21	.000	.000	.000	.000	.000	.000	.000
22	.000	.000	.000	.000	.000	.000	.000
23	-.002	.002	.086	.020	-.031	-.025	-.096
24	-.002	.181	.250	.172	.260	.181	-.032
25	.002	1.147	.854	-1.074	-.076	.494	.154
26	0.	.918	.845	-.987	.000	-.388	.219
27	-.002	.336	.412	-.764	-.815	-.534	-.025
28	-.002	.134	.208	-.124	-.401	-.234	-.058
29	-.002	.084	.158	.091	-.049	.042	.055
30	.000	.000	.000	.000	.000	.000	.000
31	-.002	.155	.252	.267	.112	.109	.042
32	0.	.134	.270	.209	.130	.123	.041
33	.002	.188	.293	.301	.194	.184	.076

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.002	.159	-.365	.475	1.268	1.225	.119
2	.002	-.712	-1.000	.465	1.018	.806	-.373
3	0.	-.979	-1.190	.732	.797	.605	-.434
4	-.002	-1.185	-1.359	.563	.441	.130	-.517
5	-.002	-1.314	-1.359	.224	-.072	-.329	-.652
6	.000	.000	.000	.000	.000	.000	.000
7	.000	.000	.000	.000	.000	.000	.000
8	.000	.000	.000	.000	.000	.000	.000
9	.000	.000	.000	.000	.000	.000	.000
10	-.002	-1.020	-1.199	-.239	-.576	-.291	-.247
11	-.002	-.885	.000	-.520	-.641	-.529	-.485
12	.002	-.470	-.408	-.451	-.457	-.330	-.373
13	0.	-.237	-.129	-.137	-.248	-.232	-.143
14	0.	-.157	-.049	-.126	-.121	-.161	-.132
15	.000	.000	.000	.000	.000	.000	.000
16	.000	.000	.000	.000	.000	.000	.000
17	.000	.000	.000	.000	.000	.000	.000
18	.000	.000	.000	.000	.000	.000	.000
19	.000	.000	.000	.000	.000	.000	.000
20	.000	.000	.000	.000	.000	.000	.000
21	.000	.000	.000	.000	.000	.000	.000
22	.000	.000	.000	.000	.000	.000	.000
23	0.	-.033	.104	-.012	.011	-.040	-.077
24	0.	.149	.168	.158	.241	.260	.067
25	.002	1.094	.585	-.450	.219	.806	.264
26	-.002	1.040	.844	-.479	.000	.101	.330
27	0.	.494	.565	-.648	-.526	-.365	-.064
28	0.	.214	.291	-.171	-.295	-.154	.061
29	-.002	.142	.211	.106	.014	.069	.012
30	.000	.000	.000	.000	.000	.000	.000
31	-.002	.148	.252	.232	.127	.217	.087
32	.002	.121	.222	.183	.168	.179	.064
33	-.002	.172	.290	.236	.245	.194	.062

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.002	-.074	-.882	.418	1.210	1.100	.086
2	-.005	-1.304	-1.855	.657	.953	.583	-.342
3	-.002	-1.587	-1.881	.677	.595	.252	-.498
4	-.005	-1.679	-1.801	.337	.152	-.207	-.695
5	-.005	-1.744	-1.778	-.050	-.301	-.600	-.925
6	.000	.000	.000	.000	.000	.000	.000
7	.000	.000	.000	.000	.000	.000	.000
8	.000	.000	.000	.000	.000	.000	.000
9	.000	.000	.000	.000	.000	.000	.000
10	-.002	-1.145	-1.338	-.455	-.737	-.606	-.520
11	-.005	-.961	.000	-.581	-.792	-.777	-.617
12	-.005	-.477	-.427	-.486	-.472	-.458	-.327
13	.101	-.277	-.086	-.174	-.244	-.280	-.191
14	-.005	-.195	-.042	-.161	-.160	-.255	-.231
15	.000	.000	.000	.000	.000	.000	.000
16	.000	.000	.000	.000	.000	.000	.000
17	.000	.000	.000	.000	.000	.000	.000
18	.000	.000	.000	.000	.000	.000	.000
19	.000	.000	.000	.000	.000	.000	.000
20	.000	.000	.000	.000	.000	.000	.000
21	.000	.000	.000	.000	.000	.000	.000
22	.000	.000	.000	.000	.000	.000	.000
23	-.005	-.087	.031	-.083	-.009	-.088	-.195
24	-.002	.135	.108	.136	.241	.172	.004
25	-.005	.932	.257	-.187	.514	.882	.133
26	-.007	1.050	.832	-.303	.000	.180	.338
27	-.005	.635	.700	-.223	-.349	-.302	-.047
28	-.005	.296	.400	-.208	-.229	-.195	-.009
29	-.002	.156	.246	.101	.063	.034	.035
30	.000	.000	.000	.000	.000	.000	.000
31	-.002	.162	.303	.177	.141	.133	.097
32	-.005	.134	.279	.189	.144	.088	-.120
33	-.002	.140	.285	.176	.216	.145	.071

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	0.	-.602	-1.531	.598	1.131	1.062	-.153
2	.002	-1.808	-2.559	.484	.573	.350	-.675
3	0.	-1.969	-2.579	.472	.202	.102	-.780
4	0.	-2.082	-2.280	.149	-.174	-.444	-.837
5	0.	-2.031	-2.101	-.104	-.537	-.850	-.879
6	.000	.000	.000	.000	.000	.000	.000
7	.000	.000	.000	.000	.000	.000	.000
8	.000	.000	.000	.000	.000	.000	.000
9	.000	.000	.000	.000	.000	.000	.000
10	0.	-1.293	-1.426	-.318	-.945	-.656	-.487
11	0.	-.971	.000	-.524	-.865	-.726	-.528
12	0.	-.457	-.256	-.426	-.505	-.411	-.301
13	0.	-.251	-.119	-.067	-.294	-.279	-.219
14	.005	-.173	-.097	-.115	-.190	-.214	-.207
15	.000	.000	.000	.000	.000	.000	.000
16	.000	.000	.000	.000	.000	.000	.000
17	.000	.000	.000	.000	.000	.000	.000
18	.000	.000	.000	.000	.000	.000	.000
19	.000	.000	.000	.000	.000	.000	.000
20	.000	.000	.000	.000	.000	.000	.000
21	.000	.000	.000	.000	.000	.000	.000
22	.000	.000	.000	.000	.000	.000	.000
23	0.	-.066	-.022	.052	.017	-.049	-.123
24	0.	.116	.087	.264	.222	.225	.103
25	0.	.565	-.338	.454	.780	1.093	.116
26	0.	1.075	.800	.324	.000	.483	.492
27	.005	.786	.804	.351	-.111	-.092	.080
28	0.	.424	.511	-.010	-.120	-.023	.071
29	0.	.222	.322	.185	.057	.130	.175
30	.000	.000	.000	.000	.000	.000	.000
31	.005	.204	.329	.303	.191	.171	.225
32	.005	.155	.347	.321	.163	.146	.066
33	.005	.134	.298	.376	.195	.232	.101

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.005	-1.365	-2.433	.354	.926	.896	-.602
2	-.005	-2.481	-3.383	.234	.276	.303	-.868
3	-.003	-2.792	-3.669	.144	-.147	-.251	-1.113
4	-.005	-2.629	-3.171	-.143	-.530	-.673	-1.028
5	-.005	-2.320	-2.482	-.377	-.857	-.993	-1.029
6	.000	.000	.000	.000	.000	.000	.000
7	.000	.000	.000	.000	.000	.000	.000
8	.000	.000	.000	.000	.000	.000	.000
9	.000	.000	.000	.000	.000	.000	.000
10	-.005	-1.411	-1.395	-.661	-1.076	-.724	-.560
11	-.002	-.963	.000	-.702	-.935	-.771	-.645
12	-.002	-.464	-.300	-.581	-.568	-.425	-.443
13	-.005	-.221	-.187	-.220	-.283	-.313	-.372
14	-.005	-.139	-.106	-.192	-.196	-.315	-.398
15	.000	.000	.000	.000	.000	.000	.000
16	.000	.000	.000	.000	.000	.000	.000
17	.000	.000	.000	.000	.000	.000	.000
18	.000	.000	.000	.000	.000	.000	.000
19	.000	.000	.000	.000	.000	.000	.000
20	.000	.000	.000	.000	.000	.000	.000
21	.000	.000	.000	.000	.000	.000	.000
22	.000	.000	.000	.000	.000	.000	.000
23	-.005	-.069	-.121	-.063	.004	-.113	-.228
24	-.002	-.037	-.029	.156	.183	.125	-.163
25	-.005	.258	-.847	.644	.997	1.114	-.314
26	-.002	1.036	.761	.671	.000	.761	.247
27	-.002	.884	.941	.147	.058	-.044	-.135
28	-.005	.483	.585	-.054	-.016	-.030	.042
29	0.	.201	.385	-.066	.066	.111	.035
30	.000	.000	.000	.000	.000	.000	.000
31	-.005	.167	.348	.136	.170	.216	.105
32	-.005	.146	.315	.250	.161	.102	-.117
33	-.005	.109	.245	.239	.195	.215	.078

Table 15. - Continued.

(b) $C_{T,s} = 0.80$, $q_s = 19.97$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.005	-1.971	-3.416	.473	.859	.907	-.750
2	-.002	-3.007	-4.059	.013	.052	.098	-.953
3	-.005	-3.108	-3.842	-.055	-.316	-.274	-.890
4	-.005	-2.925	-3.499	-.426	-.756	-.741	-.893
5	-.005	-2.560	-2.837	-.711	-1.197	-1.078	-.988
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.005	-1.475	-1.550	-.877	-1.219	-.682	-.389
11	-.005	-.982	*000.000	-.860	-1.035	-.711	-.418
12	-.007	-.447	-.362	-.648	-.901	-.599	-.375
13	-.005	-.214	-.234	-.391	-.335	-.264	-.180
14	0.	-.113	-.203	-.258	-.210	-.324	-.252
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.002	-.108	-.160	-.127	-.057	-.180	-.224
24	0.	-.050	-.076	.165	.168	-.039	-.241
25	-.005	-.020	-1.353	.809	1.249	1.294	-.281
26	-.005	.997	.645	.833	*000.000	.773	.061
27	-.005	.474	.963	.289	.192	.084	.131
28	-.002	.538	.669	-.112	.035	.054	.109
29	-.002	.272	.401	.127	.108	.241	-.042
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.005	.216	.335	.220	.185	.223	.118
32	-.007	.147	.265	.248	.151	.166	-.030
33	-.005	.101	.142	.252	.168	.022	-.135

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	0.	-2.629	-4.123	.343	.832	.763	-1.155
2	.002	-3.881	-4.895	-.431	-.193	-.106	-1.208
3	.005	-3.738	-4.507	-.389	-.665	-.480	-1.240
4	.002	-3.630	-4.126	-.763	-1.109	-.858	-1.214
5	0.	-2.887	-3.085	-.929	-1.336	-1.138	-1.103
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	.005	-1.692	-1.641	-1.025	-1.311	-.545	-.411
11	0.	-1.100	*000.000	-.901	-1.078	-.573	-.426
12	0.	-.498	-.407	-.590	-.587	-.293	-.329
13	.651	-.264	-.249	-.243	-.330	-.303	-.267
14	0.	-.221	-.209	-.205	-.227	-.264	-.176
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	.002	-.148	-.123	-.083	-.067	-.209	-.278
24	.002	-.124	-.010	.204	.153	-.037	-.313
25	.002	-.607	-1.829	.943	1.185	1.144	-.543
26	0.	.941	.645	1.006	*000.000	.895	-.159
27	0.	1.008	1.036	.488	.339	.154	-.067
28	0.	.608	.723	.033	.112	.088	-.014
29	.005	.270	.456	.207	.135	.281	.047
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	.002	.199	.389	.124	.200	.312	.184
32	.002	.142	.338	.249	.155	.151	-.131
33	0.	.083	.245	.262	.222	.227	-.044

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.002	-3.319	-4.764	-.147	-.429	-.695	-1.190
2	-.002	-4.448	-5.676	-.795	-.574	-.305	-1.322
3	-.002	-4.066	-5.040	-.998	-.892	-.344	-.657
4	-.002	-3.917	-4.451	-1.130	-1.347	-.941	-.837
5	0.	-3.051	-3.276	-1.222	-1.470	-1.130	-.734
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.002	-1.809	-1.696	-1.319	-1.436	-.533	-.200
11	-.002	-1.109	*000.000	-1.031	-1.046	-.436	-.221
12	-.002	-.514	-.496	-.679	-.603	-.358	-.174
13	-.002	-.289	-.237	-.271	-.350	-.215	-.060
14	-.003	-.264	-.214	-.238	-.236	-.272	-.203
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.002	-.187	-.116	-.033	-.119	-.273	-.317
24	-.002	-.176	-.029	.162	.123	-.036	-.097
25	.002	-.954	-2.309	.944	1.197	1.232	-.724
26	-.002	.922	.601	.977	*000.000	1.010	-.196
27	-.002	1.076	1.022	.606	.481	.232	.249
28	-.002	.708	.800	.005	.197	.163	.216
29	-.002	.334	.492	.195	.172	.181	.237
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.002	.249	.419	.141	.231	.287	.284
32	-.002	.142	.345	.247	.211	.197	-.089
33	0.	.077	.246	.259	.192	.259	-.021

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	0.	-4.144	-5.504	-.213	.187	.567	-.906
2	.002	-5.037	-6.101	-1.107	-.835	-.585	-1.177
3	0.	-5.230	-5.991	-1.343	-1.306	-.681	-.915
4	.002	-4.444	-4.907	-1.377	-1.482	-1.081	-.882
5	0.	-3.536	-3.736	-1.567	-1.647	-1.122	-.667
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	0.	-1.883	-1.745	-1.455	-1.489	-.701	-.336
11	0.	-1.169	*000.000	-1.146	-1.084	-.483	-.293
12	.005	-.542	-.448	-.776	-.583	-.275	-.147
13	.002	-.347	-.312	-.339	-.349	-.312	-.204
14	.002	-.313	-.247	-.258	-.278	-.195	-.240
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	0.	-.287	-.190	-.093	-.106	-.190	-.158
24	0.	-.211	-.069	.082	.017	-.111	-.296
25	0.	-1.473	-2.793	.956	1.204	1.153	-.860
26	0.	.862	.490	1.044	*000.000	.846	-.178
27	0.	1.092	1.019	.610	.539	.219	.112
28	.178	.688	.779	-.030	.190	.114	.059
29	0.	.340	.480	.193	.171	.133	.110
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	.002	.267	.459	.249	.251	.201	.182
32	0.	.202	.374	.238	.193	.196	-.006
33	0.	.097	.245	.212	.171	.165	.106

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.002	-4.738	-6.044	-.457	.141	.634	-1.032
2	.002	-5.711	-6.742	-1.485	-1.145	-.372	-1.371
3	.005	-5.642	-6.322	-1.552	-1.491	-.643	-.935
4	.002	-4.717	-5.037	-1.664	-1.726	-1.127	-.825
5	.007	-3.954	-3.991	-1.906	-1.849	-1.083	-.755
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	.002	-1.937	-1.719	-1.543	-1.361	-.431	-.170
11	.007	-1.183	*000.000	-1.152	-.977	-.401	-.233
12	.002	-.650	-.508	-.834	-.561	-.261	-.262
13	.002	-.394	-.281	-.244	-.309	-.215	-.296
14	.002	-.393	-.269	-.201	-.272	-.258	-.374
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	.005	-.334	-.218	-.024	-.212	-.266	-.372
24	.002	-.170	-.048	.086	.064	-.079	-.263
25	.007	-1.769	-3.143	.838	1.183	1.068	-.854
26	.002	.742	.393	1.110	*000.000	.824	-.276
27	.002	1.140	1.104	.740	.590	.033	-.158
28	.002	.806	.888	.036	.273	.148	-.020
29	.005	.374	.570	.250	.212	.196	.127
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	.002	.321	.528	.310	.275	.211	.227
32	.002	.193	.389	.311	.209	.221	.005
33	.005	.075	.258	.236	.152	.084	.170

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.002	-5.477	-6.183	-.619	-.032	.406	-.962
2	-.002	-6.376	-6.750	-1.581	-1.037	-.213	-.829
3	0.	-6.294	-6.420	-1.683	-1.593	-.530	-.706
4	0.	-5.057	-5.034	-1.917	-1.659	-.814	-.662
5	0.	-3.912	-3.694	-1.852	-1.673	-.714	-.312
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	0.	-2.174	-1.807	-1.651	-1.404	-.403	-.182
11	.002	-1.389	*000.000	-1.212	-1.016	-.367	-.214
12	0.	-.755	-.532	-.819	-.484	-.181	-.232
13	.002	-.542	-.400	-.302	-.298	-.095	-.145
14	0.	-.508	-.317	-.184	-.237	-.128	-.114
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	.002	-.386	-.239	-.056	-.150	-.133	-.259
24	0.	-.280	-.139	.010	-.015	-.076	-.265
25	0.	-2.140	-3.193	.805	1.123	1.004	-.655
26	.005	.759	.447	1.246	*000.000	.806	-.229
27	.002	1.183	1.120	.838	.701	.163	.013
28	0.	.814	.966	.105	.341	.218	.185
29	0.	.310	.550	.197	.211	.234	.066
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	0.	.341	.534	.334	.329	.327	.268
32	.002	.241	.440	.341	.273	.296	.061
33	-.002	.157	.338	.269	.205	.163	.156

Table 15. - Continued.

(b) $C_{T,S} = 0.80$, $q_S = 19.97$

$\alpha = 65°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	0.	-5.965	-6.202	-.799	-.082	.216	-.778
2	-.002	-7.157	-6.918	-1.831	-1.202	-.658	-.928
3	0.	-6.938	-6.451	-2.397	-1.897	-.812	-.878
4	0.	-5.469	-5.159	-2.147	-1.716	-.704	-.484
5	0.	-4.306	-3.876	-1.981	-1.787	-.971	-.342
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	.002	-2.219	-1.837	-1.720	-1.344	-.466	-.173
11	0.	-1.334	*000.000	-1.228	-.870	-.375	-.230
12	0.	-.878	-.631	-.834	-.633	-.373	-.291
13	0.	-.628	-.407	-.294	-.302	-.329	-.223
14	.002	-.495	-.385	-.152	-.265	-.315	-.272
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	0.	-.321	-.253	-.052	-.167	-.226	-.224
24	0.	-.110	-.048	.128	-.030	-.133	-.171
25	-.002	-3.019	-3.490	.617	1.092	.574	-.875
26	0.	.460	.326	1.116	*000.000	.492	-.222
27	0.	.912	.985	.828	.675	.018	-.159
28	0.	.616	.852	.065	.258	.105	.083
29	0.	.297	.555	.257	.194	.115	.065
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	0.	.294	.505	.385	.326	.204	.155
32	.002	.241	.422	.360	.320	.236	.018
33	0.	.189	.298	.332	.253	.146	.150

$\alpha = 70°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	0.	-6.475	-6.563	-.979	-.135	.288	-.489
2	0.	-7.594	-7.160	-1.971	-1.035	-.088	-.286
3	.002	-7.121	-6.483	-2.160	-1.357	.210	-.186
4	0.	-5.749	-5.327	-2.171	-1.571	-.068	-.196
5	.002	-4.338	-3.741	-2.093	-1.586	-.434	-.160
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	0.	-2.280	-1.821	-1.802	-1.091	-.017	-.108
11	.005	-1.264	*000.000	-1.266	-.787	-.229	-.225
12	0.	-.775	-.568	-.775	-.348	-.053	-.134
13	0.	-.551	-.403	-.316	-.248	-.080	-.093
14	0.	-.488	-.435	-.371	-.227	-.156	-.117
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	.002	-.334	-.326	-.210	-.182	-.187	-.326
24	.002	-.134	-.121	.041	.003	-.092	-.131
25	.002	-3.380	-3.235	.701	1.080	.572	-.167
26	0.	.162	.396	.635	*000.000	.386	-.030
27	-.002	.788	.961	1.058	.639	.047	.004
28	.002	.513	.825	.018	.317	.132	.103
29	0.	.362	.567	.040	.232	.266	.102
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	0.	.259	.399	.228	.223	.272	.184
32	0.	.170	.248	.197	.188	.234	-.043
33	0.	.139	.193	.254	.229	.235	.147

$\alpha = 75°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	0.	-6.894	-6.216	-.666	.287	.126	-.270
2	0.	-7.752	-7.072	-2.055	-.795	-.116	-.249
3	0.	-7.534	-6.476	-2.106	-1.198	.140	-.297
4	.002	-5.825	-5.349	-2.464	-1.549	-.387	-.246
5	.002	-4.504	-4.099	-2.369	-1.630	-.506	-.281
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	0.	-2.197	-1.834	-1.756	-.821	-.230	-.364
11	0.	-1.287	*000.000	-1.292	-.570	-.261	-.250
12	.002	-.844	-.603	-.781	-.309	-.179	-.206
13	0.	-.680	-.497	-.469	-.295	-.321	-.334
14	.004	-.469	-.420	-.377	-.317	-.337	-.424
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	0.	-.598	-.444	-.283	-.196	-.196	-.295
24	0.	-.391	-.295	-.213	-.177	-.272	-.314
25	.102	-2.582	-2.869	.455	.999	.428	-.134
26	0.	.015	.408	1.106	*000.000	.153	-.081
27	0.	.418	1.016	.819	.616	-.030	-.014
28	.919	.365	.771	-.054	.205	.056	.031
29	0.	.239	.449	.174	.174	.135	.138
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	0.	.175	.282	.115	.192	.226	.136
32	.607	.100	.189	.198	.175	.163	-.033
33	0.	.068	.113	.133	.149	.061	.159

$\alpha = 80°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-.002	-3.416	-4.080	-.696	.176	.064	-.389
2	-.170	-3.220	-3.894	-2.055	-.944	-.419	-.374
3	-.002	-2.037	-3.902	-2.188	-.827	-.292	-.630
4	.232	-1.440	-2.355	-2.051	-.784	-.023	-.298
5	-.002	-1.210	-1.425	-2.046	-1.015	-.058	-.175
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.004	-1.085	-.990	-1.538	-.824	-.148	-.185
11	0.	-1.243	*000.000	-1.211	-.655	-.309	-.205
12	-.161	-.888	-.940	-.840	-.457	-.271	-.223
13	-.002	-.781	-.735	-.470	-.343	-.304	-.259
14	0.	-.684	-.529	-.297	-.240	-.285	-.201
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	0.	-.602	-.414	-.240	-.229	-.203	-.211
24	-.002	-.438	-.212	-.102	-.190	-.238	-.278
25	.005	-2.410	-2.221	.683	.989	.310	-.374
26	.002	-.160	.501	1.114	*000.000	-.128	-.236
27	-.002	.220	.887	.689	.263	.026	.064
28	-.002	.325	.699	.009	.166	.035	.145
29	0.	.155	.324	.145	.144	.154	.176
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	.151	.122	.187	.170	.155	.211	.195
32	.115	.081	.105	.195	.083	.083	-.073
33	.002	.015	.089	.172	.142	.097	.142

Table 15.- Continued.

(c) $C_{T,s} = 0.60$, $q_s = 21.74$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.063	.986	.747	-.002	1.060	1.146	.440
2	.532	.341	.249	.485	1.120	.941	.250
3	.208	-.081	.026	.868	.954	.757	.141
4	-.169	-.474	-.376	.494	.560	.344	-.076
5	-.526	-.839	-.745	.178	.078	-.113	-.275
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.590	-.811	-.765	-.458	-.567	-.412	-.380
11	-.529	-.844	.000.000	-.691	-.693	-.627	-.498
12	-.850	-.499	-.434	-.380	-.498	-.411	-.311
13	-.139	-.315	-.195	-.207	-.301	-.272	-.150
14	-.120	-.141	-.083	-.183	-.189	-.225	-.135
15	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
16	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
17	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
18	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
19	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
20	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
21	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
22	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
23	-.106	-.013	.020	-.061	-.063	-.101	-.100
24	.009	.148	.149	-.036	.217	.098	-.032
25	.849	.984	.542	-.711	.081	.379	.224
26	.441	.567	.436	-.673	.000.000	-.456	.041
27	-.154	-.088	-.264	-.765	-.859	-.708	-.263
28	-.141	-.167	-.192	-.113	-.496	-.388	-.245
29	-.039	-.013	.016	.083	-.062	-.046	-.011
30	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
31	.004	.082	.119	.082	.074	.016	-.019
32	-.043	.076	.157	.107	.106	.005	-.065
33	.032	.118	.169	.118	.164	.074	.001

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.884	.619	.254	.676	1.273	1.310	.507
2	.152	-.277	-.310	.620	.471	.787	.192
3	-.124	-.588	-.534	.672	.650	.475	-.031
4	-.439	-.995	-.890	.134	.166	.016	-.337
5	-.792	-1.320	-1.134	-.247	-.288	-.458	-.601
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.748	-1.053	-1.126	-.699	-.799	-.472	-.421
11	-.578	-.910	.000.000	-.756	-.800	-.706	-.517
12	-.847	-.531	-.428	-.485	-.544	-.435	-.207
13	-.237	-.243	-.138	-.190	-.269	-.203	-.055
14	-.174	-.161	-.072	-.208	-.214	-.167	-.111
15	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
16	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
17	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
18	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
19	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
20	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
21	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
22	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
23	-.118	-.002	.023	-.083	-.046	-.027	-.082
24	-.154	.116	.096	.136	.208	.120	.001
25	1.066	1.148	.577	.135	.449	.802	.531
26	.604	.841	.559	-.295	.000.000	.013	.228
27	.100	.320	.200	-.306	-.511	-.350	-.083
28	-.061	.034	.041	-.098	-.330	-.204	-.004
29	-.028	.051	.104	.041	-.029	.031	-.029
30	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
31	-.045	.106	.160	.109	.086	.089	.030
32	.013	.098	.182	.166	.110	.093	.006
33	-.014	.143	.190	.175	.170	.117	.048

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.562	.037	-.457	.548	1.141	1.061	.300
2	-.263	-.971	-1.352	.197	.605	.331	-.308
3	-.545	-1.291	-1.387	.175	.228	.059	-.548
4	-.861	-1.444	-1.459	-.129	-.169	-.285	-.611
5	-1.018	-1.575	-1.464	-.424	-.696	-.828	-.898
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.954	-1.279	-1.347	-.864	-1.132	-.754	-.702
11	-.623	-.924	.000.000	-.728	-.907	-.785	-.640
12	-.878	-.475	-.359	-.420	-.560	-.428	-.311
13	-.280	-.244	-.121	-.210	-.312	-.256	-.171
14	-.260	-.148	-.042	-.116	-.198	-.162	-.179
15	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
16	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
17	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
18	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
19	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
20	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
21	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
22	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
23	-.276	0.	.018	-.028	-.002	-.046	-.127
24	-.409	.109	.073	.202	.216	.107	-.084
25	1.083	.943	.274	.200	.788	1.076	.559
26	.813	.994	.613	.195	.000.000	.493	.569
27	.279	.508	.438	-.074	-.222	-.082	.078
28	.028	.188	.254	-.067	-.206	-.105	.047
29	-.038	.106	.183	.094	.002	.062	-.028
30	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
31	-.066	.143	.247	.199	.133	.173	.021
32	.013	.122	.228	.181	.129	.142	.008
33	-.066	.142	.212	.191	.173	.112	-.047

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.116	-.732	-1.475	.170	.968	.863	-.030
2	-.838	-1.816	-2.226	-.258	.196	-.071	-.843
3	-1.249	-2.224	-2.195	-.357	-.316	-.521	-1.015
4	-1.404	-2.279	-2.328	-.738	-.748	-.939	-1.247
5	-1.389	-2.095	-2.046	-.882	-1.044	-1.230	-1.299
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.931	-1.327	-1.424	-.941	-1.264	-.893	-.739
11	-.720	-1.040	.000.000	-.820	-1.073	-.953	-.745
12	-.931	-.496	-.344	-.509	-.638	-.519	-.294
13	-.311	-.209	-.121	-.216	-.317	-.324	-.241
14	-.315	-.111	-.109	-.169	-.178	-.198	-.163
15	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
16	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
17	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
18	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
19	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
20	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
21	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
22	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
23	-.394	-.061	-.084	-.084	-.019	-.077	-.212
24	-.702	.045	-.026	.151	.187	.109	.016
25	1.084	.723	-.194	.136	1.031	1.284	.447
26	.977	1.062	.676	.541	.000.000	.881	.741
27	.474	.730	.664	.226	.076	.145	.188
28	.192	.423	.494	-.017	-.008	.047	.126
29	.015	.192	.283	.157	.101	.132	.185
30	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
31	-.068	.161	.252	.173	.157	.175	.219
32	.010	.122	.255	.215	.156	.143	.011
33	-.131	.140	.195	.223	.215	.183	.096

Table 15. - Continued.

(c) $C_{T,S} = 0.60$, $q_S = 21.74$

$\alpha = 25°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-.492	-1.915	-3.002	-.093	.480	.306	-.845
2	-1.433	-2.816	-3.593	-.942	-.546	-.616	-1.306
3	-1.636	-3.005	-3.625	-1.146	-1.110	-1.176	-1.654
4	-1.645	-2.826	-3.169	-1.039	-1.319	-1.439	-1.654
5	-1.712	-2.509	-2.542	-1.117	-1.566	-1.510	-1.380
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.169	-1.640	-1.722	-1.298	-1.686	-1.242	-1.097
11	-.795	-1.057	*000.000	-.998	-1.231	-1.030	-.626
12	-1.023	-.435	-.389	-.607	-.758	-.547	-.307
13	-.424	-.161	-.211	-.250	-.389	-.361	-.328
14	-.420	-.168	-.274	-.231	-.260	-.422	-.497
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.530	-.099	-.120	-.079	-.005	-.163	-.220
24	-1.041	-.122	-.079	.134	.096	-.069	-.175
25	.771	.053	-1.105	.580	1.151	1.228	.238
26	1.107	1.041	.667	.844	*000.000	1.037	.618
27	.592	.870	.742	.474	.338	.380	.345
28	.256	.491	.558	-.048	.125	.158	.245
29	-.026	.253	.344	.187	.125	.188	.244
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.114	.193	.314	.250	.183	.219	.180
32	-.026	.137	.261	.273	.157	.187	-.015
33	-.149	.091	.181	.272	.188	.107	.058

$\alpha = 30°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-.861	-2.811	-4.088	-.646	.017	.160	-1.188
2	-2.035	-3.931	-5.036	-1.525	-1.096	-1.055	-1.653
3	-2.399	-4.171	-4.906	-1.773	-1.761	-1.517	-1.737
4	-2.302	-3.712	-4.341	-1.838	-1.914	-1.753	-1.664
5	-2.006	-2.918	-3.178	-1.764	-2.090	-1.813	-1.328
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.313	-1.734	-1.764	-1.493	-1.860	-1.208	-.725
11	-.844	-1.013	*000.000	-1.134	-1.323	-.985	-.502
12	-.745	-.370	-.517	-.635	-.761	-.533	-.383
13	-.452	-.300	-.376	-.283	-.376	-.482	-.393
14	-.544	-.303	-.327	-.253	-.247	-.475	-.501
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.819	-.168	-.145	-.060	-.111	-.363	-.462
24	-1.261	-.139	-.080	.099	-.012	-.256	-.327
25	.522	-.809	-1.828	.600	1.171	1.188	-.355
26	1.020	.885	.621	.642	*000.000	1.166	.417
27	.755	.997	.944	.759	.621	.584	.422
28	.309	.557	.642	-.025	.231	.212	.257
29	.035	.305	.479	.232	.190	.231	.261
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.133	.213	.397	.278	.185	.223	.223
32	-.017	.166	.364	.263	.169	.163	.026
33	-.186	.097	.267	.241	.149	.094	.094

$\alpha = 35°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-1.169	-2.222	-2.948	-.910	-.427	-.222	-1.617
2	-2.312	-2.908	-3.209	-1.855	-1.573	-1.608	-2.006
3	-2.496	-3.390	-3.410	-2.274	-2.285	-1.805	-1.903
4	-2.227	-2.451	-2.115	-2.081	-2.234	-1.993	-1.548
5	-1.935	-1.898	-.938	-1.977	-2.366	-2.061	-1.418
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.995	-.707	-.685	-1.502	-1.815	-1.072	-.418
11	-.618	-.621	*000.000	-1.073	-1.266	-.767	-.404
12	-.559	-.630	-.655	-.842	-.731	-.537	-.434
13	-.437	-.637	-.626	-.476	-.391	-.470	-.472
14	-.669	-.706	-.658	-.392	-.318	-.399	-.487
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-1.000	-.699	-.565	-.356	-.168	-.368	-.401
24	-.997	-.366	-.348	-.004	-.035	-.262	-.409
25	.324	-.578	-1.377	.467	1.147	1.129	-.594
26	1.069	.847	.510	1.263	*000.000	1.230	.256
27	.772	.977	.931	.852	.773	.604	.293
28	.370	.733	.802	.070	.404	.283	.279
29	.042	.348	.505	.225	.234	.262	.278
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.117	.248	.381	.316	.269	.242	.206
32	-.019	.126	.296	.326	.175	.184	-.126
33	-.160	.005	.099	.164	.122	.031	-.011

$\alpha = 40°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-1.671	-2.809	-3.111	-1.557	-.925	-.359	-1.379
2	-2.784	-3.480	-3.060	-2.642	-2.171	-1.524	-1.255
3	-2.761	-3.124	-2.936	-2.777	-2.590	-1.952	-1.533
4	-2.679	-3.167	-2.271	-2.965	-2.701	-2.059	-1.112
5	-2.136	-1.791	-.759	-2.408	-2.602	-1.942	-.781
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.928	-.680	-.615	-1.739	-1.899	-.973	-.417
11	-.531	-.705	*000.000	-1.323	-1.413	-.870	-.548
12	-.614	-.615	-.621	-.774	-.739	-.486	-.393
13	-.599	-.742	-.764	-.636	-.507	-.370	-.426
14	-.626	-.662	-.582	-.422	-.434	-.348	-.555
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.914	-.650	-.611	-.290	-.372	-.384	-.488
24	-.908	-.666	-.555	-.137	-.087	-.341	-.429
25	-.150	-1.511	-2.034	.344	1.095	1.051	-.852
26	.975	.763	.603	1.189	*000.000	1.217	.140
27	.846	1.020	1.013	1.028	.965	.699	.348
28	.439	.786	.843	.079	.481	.391	.250
29	.060	.354	.506	.130	.272	.291	.224
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.073	.240	.410	.263	.267	.288	.215
32	0.	.145	.284	.243	.182	.215	-.084
33	-.141	-.015	.093	.094	.148	.079	.095

Table 15. - Continued.

(d) $C_{T,S} = 0.30$, $q_s = 19.07$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.153	.996	.820	.649	1.122	1.067	.837
2	.743	.462	.438	.631	.888	.733	.442
3	.498	.128	.184	.614	.587	.410	.205
4	.090	-.354	-.370	.082	.108	.008	-.174
5	-.283	-.847	-.901	-.490	-.407	-.454	-.529
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.412	-.865	-1.125	-.902	-.888	-.583	-.542
11	-.419	-.962	*000.000	-.987	-.988	-.923	-.836
12	-.712	-.543	-.585	-.600	-.628	-.556	-.438
13	.062	-.355	-.272	-.319	-.423	-.362	-.213
14	.112	-.186	-.144	-.322	-.290	-.305	-.221
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	.161	-.027	.014	-.173	-.125	-.145	-.186
24	.247	.131	.115	.067	.157	.062	-.051
25	1.087	.947	.427	-.097	.462	.592	.679
26	.477	.286	.247	-.063	*000.000	-.217	-.045
27	-.040	-.274	-.542	-.836	-.807	-.660	-.331
28	.008	-.309	-.372	-.164	-.519	-.397	-.276
29	.170	-.091	-.007	-.112	-.117	-.089	-.115
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	.227	.020	.133	.140	.035	-.039	-.030
32	.331	.035	.162	.153	.068	.017	-.013
33	.301	.082	.165	.103	.111	.044	-.061

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.798	.562	.149	.035	1.077	.984	.473
2	.006	-.260	-.410	.035	.388	.180	-.176
3	-.293	-.645	-.699	.056	-.103	-.122	-.320
4	-.011	-1.040	-1.271	-.796	-.506	-.660	-.933
5	-.939	-1.398	-1.493	-.990	-.981	-1.028	-1.139
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.878	-1.157	-1.462	-1.246	-1.265	-.907	-.887
11	-.793	-1.036	*000.000	-1.047	-1.139	-1.023	-.939
12	-1.048	-.590	-.496	-.617	-.673	-.566	-.421
13	-.224	-.238	-.159	-.228	-.328	-.244	-.140
14	-.240	-.169	-.129	-.230	-.263	-.217	-.185
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.172	-.011	-.031	-.081	-.053	-.050	-.181
24	-.248	.043	-.002	.123	.066	.016	-.140
25	.947	1.042	.650	.579	.858	1.046	.873
26	.529	.765	.568	.628	*000.000	.540	.479
27	.037	.188	.003	-.168	-.252	-.076	.033
28	-.043	-.043	-.100	-.028	-.213	-.106	-.079
29	-.107	0+	.055	.077	-.042	.001	.002
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.098	.080	.185	.156	.099	.097	-.004
32	-.034	.049	.138	.128	.064	.022	-.044
33	-.068	.090	.135	.183	.125	.032	-.115

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.283	-.399	-.855	-.073	.668	.476	.005
2	-.551	-1.351	-1.722	-.962	-.493	-.690	-.957
3	-.861	-1.588	-1.774	-.960	-1.006	-1.070	-1.243
4	-1.161	-1.780	-1.928	-1.264	-1.145	-1.320	-1.481
5	-1.297	-1.884	-2.019	-1.522	-1.570	-1.723	-1.793
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.016	-1.394	-1.649	-1.503	-1.572	-1.175	-1.127
11	-.834	-1.170	*000.000	-1.245	-1.369	-1.236	-.995
12	-1.097	-.578	-.478	-.703	-.731	-.594	-.348
13	-.267	-.237	-.171	-.278	-.330	-.273	-.253
14	-.233	-.124	-.174	-.168	-.188	-.188	-.253
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.309	-.041	-.064	-.021	.021	-.086	-.241
24	-.635	-.019	-.013	.097	.050	-.030	-.217
25	1.038	.958	.461	.656	1.181	1.228	.807
26	.849	.981	.734	.747	*000.000	.933	.844
27	.282	.459	.309	.211	.119	.194	.290
28	.019	.113	.119	.030	-.045	.023	.100
29	-.052	.053	.130	.106	.023	.063	.080
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.122	.099	.212	.204	.123	.097	-.013
32	-.008	.084	.193	.200	.105	.069	-.040
33	-.112	.109	.193	.217	.148	.062	-.040

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.265	-1.286	-1.680	-.863	-.048	-.303	-.744
2	-1.420	-2.440	-2.947	-2.029	-1.379	-1.673	-1.930
3	-1.735	-3.005	-3.409	-2.501	-2.020	-2.164	-2.345
4	-1.682	-2.574	-2.937	-2.311	-2.003	-2.263	-2.307
5	-1.638	-2.409	-2.593	-2.194	-2.203	-2.249	-2.177
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.063	-1.489	-1.699	-1.652	-1.820	-1.361	-1.234
11	-.885	-1.126	*000.000	-1.313	-1.478	-1.261	-.913
12	-1.134	-.434	-.441	-.705	-.753	-.543	-.350
13	-.329	-.180	-.188	-.254	-.310	-.299	-.313
14	-.307	-.187	-.170	-.151	-.121	-.224	-.247
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.587	-.255	-.273	-.119	-.094	-.262	-.324
24	-1.076	-.168	-.107	.064	-.010	-.124	-.214
25	.778	.424	-.182	.400	1.112	1.034	.617
26	.845	.938	.692	.932	*000.000	1.149	.863
27	.506	.740	.645	.840	.524	.575	.572
28	.151	.355	.379	.003	.227	.235	.268
29	-.040	.150	.288	.166	.144	.150	.201
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.131	.130	.276	.191	.201	.204	.229
32	-.010	.189	.241	.214	.169	.133	.017
33	-.218	.054	.168	.175	.122	.025	.029

Table 15. - Concluded.

(d) $C_{T,S} = 0.30$, $q_s = 19.07$

$\alpha = 25°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-1.253	-2.727	-3.614	-1.778	-.913	-.996	-1.866
2	-2.033	-2.810	-3.122	-2.607	-2.221	-2.599	-2.968
3	-2.252	-3.205	-3.425	-3.126	-2.923	-2.997	-3.149
4	-2.195	-2.880	-3.027	-3.017	-2.914	-3.054	-3.012
5	-2.049	-2.466	-2.398	-2.681	-2.933	-2.882	-2.638
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.073	-.796	-.664	-1.823	-2.163	-1.697	-1.608
11	-.694	-.673	*000.000	-1.094	-1.516	-1.268	-.844
12	-.727	-.531	-.613	-.731	-.787	-.717	-.661
13	-.422	-.490	-.499	-.350	-.359	-.537	-.548
14	-.613	-.690	-.642	-.431	-.338	-.517	-.524
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.902	-.695	-.470	-.287	-.197	-.360	-.420
24	-1.194	-.530	-.423	-.253	-.199	-.349	-.369
25	.346	-.189	-.695	.012	.988	.690	-.194
26	.859	.904	.749	1.009	*000.000	1.304	.713
27	.619	.842	.812	1.023	.796	.774	.579
28	.109	.296	.344	-.052	.254	.287	.288
29	-.085	.182	.340	.199	.207	.258	.278
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.247	.081	.206	.178	.212	.239	.254
32	.003	.068	.184	.239	.113	.105	-.053
33	-.294	-.057	.047	.097	.022	-.052	-.073

$\alpha = 30°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-1.493	-2.414	-3.078	-2.549	-1.817	-1.705	-2.343
2	-2.225	-2.900	-3.217	-3.221	-2.813	-2.753	-2.671
3	-2.581	-3.322	-3.577	-3.817	-3.714	-3.515	-3.170
4	-2.296	-2.654	-2.889	-3.443	-3.494	-3.255	-2.573
5	-2.089	-2.490	-2.731	-3.188	-3.528	-3.131	-2.258
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.979	-.706	-.610	-1.778	-2.130	-1.447	-.896
11	-.522	-.615	*000.000	-.975	-1.362	-.885	-.801
12	-.660	-.646	-.741	-.649	-.707	-.775	-.821
13	-.575	-.725	-.683	-.531	-.547	-.814	-.638
14	-.757	-.682	-.644	-.619	-.571	-.733	-.669
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-1.275	-1.052	-.697	-.382	-.394	-.573	-.572
24	-1.042	-.554	-.508	-.329	-.379	-.700	-.693
25	.190	-.365	-.795	-.063	.738	.516	-.614
26	.879	.829	.731	1.198	*000.000	1.275	.514
27	.605	.804	.843	.966	.970	.928	.589
28	.297	.547	.625	.095	.506	.492	.452
29	.049	.267	.387	.266	.273	.303	.330
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.131	.116	.283	.247	.224	.257	.234
32	-.005	.034	.180	.230	.118	.120	0.
33	-.220	-.023	.089	.127	.070	.040	-.007

$\alpha = 35°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-2.013	-3.059	-3.200	-3.169	-2.640	-2.315	-2.831
2	-2.568	-2.906	-3.175	-4.256	-3.926	-3.557	-2.944
3	-2.765	-2.939	-3.172	-4.426	-4.379	-3.627	-2.724
4	-2.461	-2.388	-1.974	-4.282	-4.381	-3.928	-2.860
5	-1.854	-1.162	-.936	-3.226	-3.716	-3.135	-1.759
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.815	-.729	-.650	-2.030	-2.436	-1.692	-.823
11	-.540	-.637	*000.000	-1.097	-1.387	-.943	-.707
12	-.628	-.631	-.652	-.742	-.722	-.809	-.727
13	-.671	-.631	-.616	-.599	-.572	-.560	-.635
14	-.805	-.632	-.594	-.624	-.551	-.657	-.654
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.970	-.724	-.659	-.543	-.441	-.408	-.555
24	-.805	-.582	-.528	-.549	-.387	-.427	-.484
25	-.354	-1.313	-1.650	-.816	.376	.024	-1.287
26	.873	.743	.721	1.236	*000.000	1.269	.410
27	.804	.955	1.029	1.278	1.258	1.187	.773
28	.388	.626	.701	.160	.641	.616	.509
29	.106	.322	.483	.308	.379	.431	.430
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.097	.193	.346	.263	.278	.288	.281
32	-.020	.082	.206	.278	.121	.150	-.052
33	-.166	-.108	.045	.039	.053	.021	-.016

Table 16.- Pressure coefficients for wing with propeller rotation up at tip, basic leading edge, $\delta_f = 20°$.

(a) $C_{T,S} = 0.90$, $q_s = 20.17$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.881	.842	.634	-.011	.775	.921	.142
2	.278	.134	.001	.716	1.148	1.026	.176
3	.045	-.178	-.267	.956	1.130	.937	.038
4	-.283	-.496	-.555	.965	.898	.519	-.050
5	-.420	-.760	-.796	.731	.877	.178	-.167
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.330	-.737	-.958	.011	-.014	-.103	-.113
11	-.330	-.780	*000.000	-.126	-.505	-.384	-.217
12	-.898	-.482	-.517	-.116	-.453	-.287	-.098
13	-.213	-.367	-.411	-.269	-.349	-.241	-.086
14	-.201	-.323	-.388	-.315	-.372	-.218	-.088
15	-.210	1.098	.118	.208	.140	.090	.016
16	.222	.123	.281	.214	.239	.041	.073
17	.293	.108	.299	.167	.243	.018	.035
18	.293	.167	.240	.177	.213	.057	.001
19	.107	-.024	.011	.031	.028	.025	.007
20	-.307	-.448	-.494	-.304	-.371	-.286	-.174
21	-.507	-.698	-.807	-.622	-.683	-.479	-.205
22	-.496	-.712	-.766	-.684	-.716	-.569	-.235
23	-.421	-.281	-.284	-.114	-.168	-.178	-.094
24	-.306	.086	.211	.065	.052	.014	-.072
25	1.089	1.105	.973	-2.050	-.619	-.148	.107
26	.635	.853	.909	-1.377	*000.000	-.523	.148
27	-.010	.296	.403	-1.031	-1.027	.743	0.
28	-.034	.128	.218	-.022	-.403	-.238	.024
29	.081	.258	.260	.233	.097	.067	.039
30	1.017	.961	.977	.510	.986	.453	.163
31	.456	.615	.648	.338	.609	.381	.163
32	.262	.472	.590	.324	.428	.243	.141
33	.080	.364	.441	.329	.234	.173	.087

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.748	.533	.294	.103	1.055	1.148	-.100
2	.176	-.260	-.442	.835	1.134	.855	-.257
3	-.098	-.471	-.831	.765	.866	.651	-.106
4	-.616	-1.039	-.884	1.165	.965	.491	-.364
5	-.743	-1.689	-1.648	1.313	.557	.062	-.475
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.398	-.781	-.894	-.007	-.188	-.175	-.266
11	-.414	-.890	*000.000	-.191	-.660	-.503	-.315
12	-1.045	-.527	-.419	.023	-.490	-.348	-.105
13	-.440	-.619	-.409	-.172	-.557	-.357	-.244
14	-.585	-.589	-.439	-.152	-.460	-.494	-.376
15	-.213	1.111	.151	.411	.148	.147	-.036
16	.233	-.027	.326	.451	.215	-.015	-.008
17	.234	.103	.271	.335	.409	.076	-.084
18	.341	.059	.292	.410	.365	-.002	-.136
19	-.145	-.196	.042	.312	-.033	-.052	-.033
20	-.982	-.963	-.693	-.371	-.530	-.531	-.273
21	-.539	-.602	-.629	-.327	-.627	-.422	-.309
22	-.665	-.597	-.646	-.370	-.687	-.540	-.398
23	-.702	-.362	-.287	.048	-.233	-.266	-.190
24	-.608	.040	.189	.139	.206	-.012	-.157
25	.959	.863	.843	-1.201	-.140	.059	-.058
26	.677	.948	1.071	-1.209	*000.000	-.613	.129
27	.861	.410	.793	-.891	-.908	-.945	-.092
28	-.083	.209	.291	.132	-.339	-.162	-.058
29	-.129	.314	.348	.426	.071	.096	.006
30	1.348	1.080	1.396	.588	1.513	.379	.143
31	.487	.520	.839	.478	.796	.318	.155
32	.125	.311	.491	.370	.332	.215	.022
33	-.066	.226	.366	.324	.254	.100	.001

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.461	.194	-.035	.018	.876	.868	-.051
2	-.187	-.646	-.851	.644	1.254	1.031	-.243
3	-.312	-.623	-1.002	.607	.812	.533	-.061
4	-.643	-1.042	-1.486	.833	.643	.295	-.420
5	-.662	-1.074	-1.119	.303	.241	-.187	-.248
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.307	-1.184	-1.378	-.285	-.177	-.432	-.217
11	-.399	-.994	*000.000	-.261	-.622	-.621	-.226
12	-1.287	-.538	-.800	-.153	-.642	-.491	-.156
13	-.461	-.603	-.529	-.561	-.405	-.548	-.111
14	-.498	-.424	-.531	-.477	-.423	-.405	-.046
15	-.108	.919	.227	.167	.279	.019	-.030
16	.080	.160	.214	.241	.251	.099	.070
17	.099	.177	.242	.183	.353	.117	.224
18	.230	.155	.254	.045	.367	.040	.121
19	-.051	-.088	-.045	-.051	.136	-.081	.030
20	-.599	-.661	-.726	-.416	-.638	-.414	-.274
21	-.701	-.842	-.797	-.636	-.671	-.643	-.233
22	-.888	-1.037	-.920	-.861	-.845	-.900	-.396
23	-1.009	-.448	-.454	-.096	-.273	-.401	-.335
24	-.523	.035	.158	.025	.192	-.058	.036
25	.857	.841	.535	-.729	.162	.084	.188
26	.770	.906	.786	-.619	*000.000	-.330	.181
27	.205	.396	.558	-.471	-.429	-.549	.202
28	-.020	.401	.327	.009	-.498	-.233	.105
29	.029	.341	.319	.287	.130	.102	.108
30	1.064	1.014	.962	.625	1.142	.699	.248
31	.421	.483	.558	.293	.520	.370	.183
32	.456	.491	.768	.386	.662	.257	.332
33	-.026	.313	.293	.231	.223	.117	.004

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.347	.025	-.751	.500	1.123	1.100	-.131
2	-.340	-.849	-1.345	.789	.828	1.022	-.402
3	-.517	-1.074	-1.494	.789	.698	.689	-.440
4	-.705	-1.070	-1.242	.559	.346	.185	-.349
5	-.980	-1.668	-1.874	.445	-.025	-.239	-.689
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.006	-1.262	-1.961	-.038	-.732	-.288	-.601
11	-.736	-.936	*000.000	-.104	-1.055	-.476	-.500
12	-1.192	-.577	-.654	-.164	-.548	-.295	-.236
13	-.616	-.505	-.552	-.224	-.495	-.255	-.257
14	-.594	-.353	-.477	-.127	-.545	-.196	-.224
15	-.344	.844	.118	.379	-.019	.173	-.256
16	.075	.213	.205	.346	.161	.346	-.073
17	-.042	.220	.381	.453	.191	.488	-.060
18	.079	.248	.235	.460	.122	.451	-.007
19	-.341	.028	-.165	.240	-.195	.191	-.114
20	-.664	-.548	-.502	-.295	-.465	-.308	-.241
21	-1.016	-.884	-.836	-.518	-.821	-.600	-.342
22	-1.587	-1.267	-1.245	-.682	-1.335	-.896	-.684
23	-.666	-.314	-.343	.028	-.305	-.174	-.330
24	-.428	.040	.192	.204	.129	.123	-.037
25	1.362	1.514	.396	-.567	.301	.514	-.065
26	1.014	1.319	1.116	-.533	*000.000	-.095	.151
27	.166	1.156	.964	-.512	-.854	-.786	.036
28	.093	.270	.403	.069	-.167	-.110	.031
29	.120	.374	.458	.320	.180	.110	.080
30	.760	.772	.918	.584	.873	.845	.301
31	.504	.707	.698	.687	.548	.789	.260
32	.135	.478	.422	.520	.258	.392	.199
33	.120	.443	.466	.546	.217	.368	-.155

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.425	-.397	-1.817	.557	1.869	1.934	-.577
2	-.692	-1.479	-2.220	.935	1.010	.902	-.529
3	-.868	-1.790	-2.406	.891	.860	.515	-.541
4	-1.084	-1.882	-1.696	.448	.261	.098	-.428
5	-1.203	-1.476	-2.083	.292	-.218	-.397	-.640
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.863	-.983	-1.427	-.208	-.324	-.405	-.328
11	-.571	-1.286	*000.000	-.398	-.950	-.612	-.588
12	-1.666	-.670	-.948	-.262	-.722	-.681	-.364
13	-.666	-.527	-.437	-.192	-.467	-.385	-.147
14	-.657	-.271	-.329	-.264	-.263	-.233	-.178
15	-.310	.421	.401	.281	.199	.145	-.243
16	-.128	.231	.291	.300	.185	.183	.003
17	-.136	.256	.219	.270	.362	.251	-.061
18	-.112	.189	.246	.328	.417	.218	-.054
19	-.418	-.061	-.007	.116	-.033	.074	-.013
20	-.822	-.386	-.418	-.247	-.341	-.300	-.191
21	-1.545	-.905	-.944	-.570	-.758	-.740	-.512
22	-1.798	-.914	-.905	-.814	-.914	-.788	-.487
23	-1.196	-.331	-.292	-.150	-.185	-.289	-.351
24	-.684	.115	.229	.094	.129	.116	-.201
25	.940	.901	-.049	.199	.653	.529	-.141
26	1.418	1.906	1.319	-.130	*000.000	-.064	-.241
27	.304	.939	1.017	0.	-.520	-.474	-.114
28	.102	.537	.471	-.004	-.096	-.080	-.115
29	.149	.494	.670	.534	.216	.193	.147
30	.507	.772	.833	.538	.866	.801	.353
31	.351	.879	1.032	.861	.864	.716	.377
32	.086	.617	.706	.426	.419	.323	.295
33	-.147	.450	.663	.607	.349	.273	-.170

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.084	-1.039	-2.441	.570	1.448	1.312	-.459
2	-1.162	-2.248	-3.094	.537	1.112	.807	-.734
3	-1.099	-1.937	-2.897	.425	.685	.297	-.609
4	-1.340	-2.392	-2.808	.189	.335	-.159	-.775
5	-1.216	-2.424	-2.507	-.031	-.266	-.562	-.704
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.547	-1.098	-1.239	-.254	-.380	-.340	-.247
11	-.744	-1.603	*000.000	-.520	-1.173	-.901	-.446
12	-1.014	-.613	-.656	-.255	-.364	-.456	-.197
13	-.428	-.653	-.392	-.318	-.369	-.254	-.140
14	-1.089	-.648	-.584	-.488	-.296	-.499	-.178
15	-.295	.444	.211	.220	.104	.081	-.197
16	-.319	.093	.324	.481	.318	.328	-.006
17	-.271	.100	.216	.217	.401	.231	.043
18	-.134	-.029	.203	.228	.281	.159	.150
19	-.693	-.250	-.076	-.144	.114	.008	.117
20	-1.710	-.996	-.894	-.637	-.683	-.533	-.253
21	-1.469	-.886	-.771	-.609	-.693	-.601	-.175
22	-2.065	-1.366	-.961	-.845	-.935	-.874	-.291
23	-1.073	-.503	-.295	-.232	-.181	-.346	-.179
24	-.669	-.025	.128	.039	.256	-.013	.004
25	.813	.391	-.219	-.083	.725	.489	-.020
26	1.305	.946	.982	-.182	*000.000	.204	.243
27	.455	.659	.873	-.239	-.259	-.361	-.012
28	.206	.286	.566	-.117	-.049	-.194	-.026
29	-.006	.283	.651	.159	.383	.053	.039
30	1.042	.857	1.140	.846	1.389	1.100	.872
31	.609	.610	.916	.845	.822	.738	.420
32	.210	.222	.529	.494	.361	.276	.271
33	.197	.180	.507	.257	.428	.168	-.073

Table 16. - Continued.

(a) $C_{T,s} = 0.90$, $q_s = 20.17$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.261	-1.369	-2.744	.688	1.179	1.293	-.682
2	-.466	-2.082	-2.997	.621	.554	.537	-.616
3	-1.142	-1.970	-2.933	.493	.326	.180	-.567
4	-1.187	-1.848	-2.409	.333	-.103	-.183	-.420
5	-1.414	-2.288	-2.753	.111	-.565	-.666	-.412
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.840	-1.871	-2.179	-.428	-.824	-.588	-.291
11	-.481	-1.093	*000.000	-.192	-.865	-.591	-.178
12	-1.420	-.954	-1.133	-.179	-.745	-.671	-.299
13	-.751	-.554	-.452	-.238	-.448	-.238	-.149
14	-1.038	-.489	-.561	-.260	-.505	-.348	-.074
15	-.316	.413	.229	.243	-.004	.161	-.108
16	-.496	.242	.353	.491	.227	.430	-.057
17	-.600	.249	.272	.573	.430	.353	.065
18	-.460	.218	.078	.514	.228	.187	.199
19	-.740	-.218	-.209	.118	.046	-.063	.012
20	-1.470	-.677	-.592	-.370	-.627	-.351	-.107
21	-1.405	-1.137	-.803	-.523	-.954	-.676	-.139
22	-2.391	-1.249	-.990	-.733	-1.111	-.863	-.276
23	-1.749	-.766	-.887	-.136	-.469	-.435	-.305
24	-.513	-.064	.059	.190	.100	-.018	-.114
25	.869	.359	-.586	.377	.729	.581	-.268
26	1.290	1.129	.792	.322	*000.000	.156	.217
27	.651	1.079	.939	.257	-.341	-.472	.015
28	.366	.640	.898	.085	-.199	-.141	-.038
29	-.016	.628	.436	.558	.366	.046	.088
30	1.112	1.117	1.208	1.528	1.378	1.367	1.056
31	.653	.657	.731	.972	.590	.696	.475
32	.267	.620	.868	.906	.483	.443	.388
33	.037	.237	.281	.457	.171	.190	-.048

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.728	-1.761	-3.374	.733	1.073	1.215	-.346
2	-1.755	-2.756	-3.743	.494	.515	.630	-.486
3	-1.790	-3.108	-4.632	.539	.112	.303	-.630
4	-1.594	-2.313	-2.975	.062	-.200	-.158	-.224
5	-1.946	-2.831	-3.191	-.153	-.748	-.616	-.320
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.799	-1.509	-1.855	-.550	-.788	-.305	-.043
11	-.490	-1.201	*000.000	-.668	-1.040	-.594	-.186
12	-.995	-.776	-.771	-.460	-.647	-.288	-.128
13	-.800	-.474	-.401	-.401	-.362	-.144	-.109
14	-1.129	-.530	-.542	-.555	-.472	-.268	-.120
15	-.519	.711	.432	.178	-.098	.141	-.043
16	-.640	.128	.228	.387	.194	.289	.002
17	-.741	.307	.165	.283	.283	.551	.090
18	-.500	.137	.077	.211	.281	.214	.001
19	-.598	-.227	-.191	.018	.032	.068	.042
20	-1.405	-.675	-.718	-.619	-.624	-.338	-.142
21	-2.158	-1.135	-.781	-.772	-.800	-.504	-.413
22	-3.103	-1.464	-.918	-1.065	-.920	-.560	-.314
23	-1.939	-.613	-.341	-.345	-.427	-.279	-.203
24	-.702	-.100	-.045	.108	.185	.094	-.137
25	.712	.136	-.941	.343	.918	.801	-.121
26	.954	.885	.582	.310	*000.000	.273	-.007
27	.580	.928	.902	.103	-.204	-.382	.042
28	.163	.470	.592	-.104	-.128	-.054	.116
29	.033	.657	.596	.341	.170	.205	.156
30	.491	.657	.692	.740	.916	.903	.357
31	.398	.567	.598	.491	.655	.624	.394
32	.212	.660	.554	.449	.556	.502	.337
33	-.022	.388	.350	.295	.248	.305	.113

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.093	-2.193	-3.961	.762	1.168	1.311	-.299
2	-1.580	-2.345	-3.150	.367	.227	.446	-.409
3	-1.810	-2.433	-3.482	.091	.053	.223	-.420
4	-2.444	-3.554	-4.437	-.171	-.388	-.335	-.667
5	-1.392	-1.439	-2.184	-.359	-.479	-.211	-.257
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.369	-1.401	-1.661	-.908	-.935	-.140	.042
11	-1.234	-1.271	*000.000	-.961	-1.015	-.284	-.187
12	-.872	-.617	-.564	-.383	-.526	-.218	-.098
13	-1.034	-.754	-.854	-.588	-.480	-.334	-.241
14	-1.268	-.594	-.432	-.311	-.499	-.115	-.129
15	-.812	.505	.445	.196	-.070	.326	-.048
16	-.549	.092	.217	.231	.169	.216	-.027
17	-.905	.078	.312	.446	.212	.429	-.004
18	-.722	.147	.042	.245	.096	.267	-.024
19	-.957	-.257	-.183	.076	-.136	.060	-.021
20	-1.822	-.684	-.741	-.558	-.480	-.202	-.307
21	-3.072	-1.218	-.889	-1.045	-1.154	-.556	-.481
22	-3.089	-1.212	-.837	-1.002	-.894	-.248	-.395
23	-1.966	-.448	-.365	-.282	-.420	-.133	-.246
24	-1.056	.090	-.110	.157	.009	-.021	.007
25	.606	-.101	-1.311	.919	.976	.881	-.376
26	.764	.975	.714	.402	*000.000	.517	-.001
27	.633	.892	.918	.238	-.106	-.152	.257
28	.056	.565	.530	.050	.010	-.009	.078
29	-.082	.270	.347	.260	.061	.212	.049
30	.374	.804	.748	.764	.932	.926	.267
31	.237	.685	.805	.651	.836	.674	.259
32	-.050	.390	.553	.401	.358	.447	.157
33	-.172	.350	.291	.336	.200	.214	.028

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.320	-2.120	-3.551	.580	.871	.764	-.457
2	-2.035	-2.868	-3.495	.257	.249	.361	-.342
3	-2.195	-2.752	-3.944	.090	.018	.095	-.400
4	-2.874	-2.679	-3.246	-.213	-.420	-.183	-.318
5	-1.726	-2.177	-2.472	-.476	-.728	-.572	-.423
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.153	-1.692	-1.855	-.815	-.812	-.298	-.149
11	-1.153	-1.416	*000.000	-.903	-1.034	-.430	-.187
12	-1.203	-.876	-.718	-.488	-.620	-.287	-.228
13	-1.674	-.956	-.837	-.646	-.799	-.609	-.293
14	-1.698	-.617	-.555	-.538	-.563	-.405	-.284
15	-.813	.560	.386	.269	-.040	.089	-.276
16	-.901	.138	.249	.301	.132	.138	-.127
17	-.806	.123	.151	.256	.235	.155	.026
18	-.991	.010	.066	.172	.119	.172	-.121
19	-.853	-.165	-.139	.046	-.021	-.105	-.121
20	-1.590	-.581	-.508	-.457	-.592	-.429	-.321
21	-3.125	-1.280	-.894	-.988	-.953	-.686	-.493
22	-2.738	-1.113	-.805	-.955	-.928	-.514	-.390
23	-1.758	-.546	-.381	-.310	-.401	-.341	-.255
24	-.987	.007	-.056	.150	.031	-.240	-.208
25	.317	-.122	-1.621	.856	1.253	.643	-.446
26	1.302	1.354	.778	.704	*000.000	.256	-.172
27	.496	.867	.812	.092	-.015	-.226	.043
28	.227	.590	.610	.124	.005	-.139	.010
29	-.077	.542	.539	.303	.214	-.055	.089
30	.795	1.168	1.113	1.147	1.417	1.079	.524
31	.410	.618	.635	.449	.350	.314	.069
32	.149	.709	.769	.644	.635	.192	.110
33	.051	.508	.514	.285	.192	.009	-.113

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.449	-3.019	-4.671	.653	1.114	.951	-.240
2	-3.720	-3.979	-4.955	.151	.284	.453	-.300
3	-3.783	-4.140	-5.822	.109	-.062	.308	-.156
4	-3.846	-4.325	-4.830	-.388	-.598	.021	-.040
5	-2.796	-3.368	-3.577	-.686	-1.035	-.195	-.043
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.505	-1.604	-1.759	-.714	-.711	-.233	.187
11	-.937	-1.012	*000.000	-.617	-.621	-.221	.004
12	-.829	-.773	-.591	-.245	-.581	-.147	.041
13	-1.226	-.639	-.435	-.335	-.422	-.089	.018
14	-2.424	-.862	-.822	-.486	-.538	-.310	-.013
15	-.957	.339	.298	.325	-.170	.241	.026
16	-1.573	.225	.204	.580	.070	.389	-.003
17	-.983	-.022	.131	.391	.109	.189	.027
18	-1.592	-.022	.143	.309	.132	.281	.225
19	-1.195	-.224	-.172	.018	-.082	.156	.079
20	-1.956	-.654	-.667	-.467	-.416	-.242	-.105
21	-3.417	-1.232	-.995	-.788	-.934	-.234	-.256
22	-3.423	-1.266	-.906	-1.004	-.802	-.609	-.379
23	-1.629	-.606	-.422	-.148	-.387	-.275	-.013
24	-1.731	-.152	-.176	.095	-.138	-.107	-.084
25	-.259	-.458	-2.052	1.076	1.224	.586	.050
26	.885	1.124	.622	.771	*000.000	.399	.242
27	.495	.785	.773	.267	-.068	-.175	.118
28	.014	.425	.548	.177	-.141	.009	.301
29	-.456	.421	.561	.238	.113	.191	.109
30	.276	.801	.917	1.043	.989	.876	.383
31	.005	.594	.598	.791	.440	.431	.278
32	-.244	.473	.686	.495	.443	.307	.324
33	-.164	.178	.292	.469	.248	.177	.250

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.640	-3.085	-4.555	.808	1.112	.555	-.274
2	-4.362	-4.831	-5.802	.422	.449	.191	-.268
3	-2.697	-2.992	-3.745	-.061	-.131	.078	-.145
4	-2.822	-3.249	-3.524	-.320	-.484	-.095	-.215
5	-2.196	-2.583	-2.560	-.654	-.451	-.011	-.271
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.349	-2.034	-1.841	-.763	-.784	-.066	-.211
11	-1.333	-1.856	*000.000	-.691	-.829	-.227	-.190
12	-.895	-.946	-.523	-.286	-.315	-.156	-.286
13	-1.545	-.981	-.605	-.156	-.344	-.265	-.356
14	-1.872	-1.007	-.624	-.406	-.379	-.228	-.411
15	-1.033	.344	.474	.443	-.076	.070	-.402
16	-.995	-.096	.292	.479	.199	.053	-.054
17	-1.210	-.047	.242	.439	.442	.299	-.053
18	-1.662	-.445	.152	.685	.556	.112	.036
19	-1.458	-.501	-.345	.057	.004	-.050	-.094
20	-1.724	-.801	-.620	-.260	-.473	-.392	-.274
21	-3.068	-1.583	-1.047	-.649	-.609	-.387	-.438
22	-4.670	-1.965	-1.197	-1.039	-1.037	-.514	-.829
23	-1.748	-.912	-.691	-.402	-.281	-.241	-.503
24	-1.026	-.419	-.278	.224	-.069	-.259	-.311
25	-.550	-.708	-1.789	1.042	1.171	.109	-.349
26	.902	.690	.632	1.077	*000.000	.028	-.066
27	.747	.747	.978	.387	-.147	-.530	.017
28	.138	.314	.743	.298	.007	-.156	-.104
29	.030	.336	.539	.261	.201	.103	.064
30	.523	.654	.939	1.209	1.041	.511	.030
31	.066	.782	1.047	1.118	1.022	.614	.224
32	.085	.343	.633	.753	.644	.188	-.087
33	-.013	.070	.364	.499	.422	.137	-.138

Table 16. - Continued.

(a) $C_{T,S} = 0.90$, $q_s = 20.17$

$\alpha = 65°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.478	-2.996	-4.127	.590	.744	.060	-.262
2	-3.712	-3.777	-4.610	-.290	.186	.464	-.076
3	-4.765	-4.826	-5.075	-.466	-.179	.414	-.380
4	-2.867	-3.015	-3.568	-.678	-.442	.076	-.251
5	-2.342	-2.646	-2.822	-.983	-.667	.052	-.125
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-2.776	-3.414	-3.241	-1.904	-1.182	.047	-.499
11	-.934	-1.288	*000.000	-.872	-.735	-.095	-.215
12	-.849	-.728	-.980	-.680	-.365	-.158	-.213
13	-1.739	-.886	-.585	-.461	-.398	-.135	-.294
14	-3.950	-1.231	-1.353	-1.071	-.488	-.083	-.443
15	-.961	.740	.321	.002	-.301	.081	-.261
16	-1.122	.227	.197	.287	.089	.226	-.157
17	-1.086	.091	.011	.204	.387	.263	-.087
18	-1.546	.124	.045	.234	.478	.300	-.499
19	-1.074	-.100	-.201	-.153	-.124	.068	-.163
20	-2.207	-.817	-.927	-.822	-.477	-.088	-.394
21	-2.030	-.838	-.718	-.548	-.388	-.287	-.215
22	-2.014	-.849	-.816	-.691	-.504	-.153	-.298
23	-1.200	-.382	-.591	-.411	-.448	-.211	-.207
24	-.498	-.012	-.227	-.239	-.183	-.104	-.255
25	-.842	-.570	-1.678	.933	.952	-.120	-.275
26	.706	.867	.384	.424	*000.000	.017	-.014
27	.625	.965	.733	-.027	-.086	-.305	-.085
28	.383	.512	.584	-.260	-.153	.010	-.180
29	-.010	.383	.306	.130	.147	.098	-.101
30	.375	.414	.764	.912	.992	.539	.196
31	.078	.867	.894	.921	.731	.494	.076
32	.190	.546	.525	.421	.149	.154	.104
33	-.328	.647	.552	.467	.188	.382	-.125

$\alpha = 70°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.284	-3.124	-4.035	.731	.984	.339	-.121
2	-4.523	-4.753	-5.007	.034	.536	.281	-.054
3	-4.147	-4.316	-5.184	-.240	-.005	.155	-.094
4	-4.049	-4.043	-4.632	-.643	.024	.074	-.191
5	-3.530	-3.847	-3.565	-.870	-.473	.104	-.189
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-3.630	-4.570	-3.682	-1.605	-.694	.192	-.364
11	-.943	-1.465	*000.000	-.584	-.338	-.112	-.036
12	-.776	-.883	-.546	-.216	-.193	-.130	-.094
13	-2.913	-1.691	-1.556	-.551	-.681	-.161	-.374
14	-1.980	-.899	-.560	-.182	-.197	-.115	-.335
15	-1.026	.188	.240	.401	.150	.300	-.136
16	-1.545	-.057	.158	.770	.515	.252	-.204
17	-1.099	-.286	-.022	.479	.434	.351	-.146
18	-.815	-.185	.046	.368	.248	.195	-.015
19	-.944	-.418	-.234	.174	-.034	.023	-.263
20	-1.981	-1.162	-.932	-.388	-.105	-.155	-.336
21	-2.525	-1.454	-1.149	-.528	-.524	-.444	-.384
22	-1.643	-1.054	-.844	-.490	-.173	-.141	-.320
23	-1.317	-1.043	-1.085	-.271	-.476	-.204	-.533
24	-.540	-.217	-.099	.005	-.070	-.192	-.231
25	-3.474	-2.393	-3.417	2.394	2.133	-.146	-.175
26	.481	.676	.672	1.083	*000.000	.129	-.003
27	.533	.790	.996	.343	-.027	-.101	-.050
28	.436	.720	1.185	-.013	.020	.157	.125
29	-.307	.167	.694	.034	.498	.296	.206
30	.078	.621	.737	1.187	1.063	.851	.061
31	.050	.333	.518	.642	.592	.555	.115
32	-.052	.323	.425	.516	.393	.267	.141
33	-.116	.169	.360	.591	.588	.280	-.086

$\alpha = 75°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.665	-3.596	-4.047	.624	.947	-.206	-.083
2	-3.312	-3.962	-3.760	-.113	.449	.016	-.059
3	-4.022	-4.659	-5.137	-.103	.419	.023	.039
4	-4.434	-5.242	-6.079	-1.239	-.069	.027	-.313
5	-3.153	-4.555	-4.033	-1.245	-.325	.011	-.151
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.269	-1.995	-1.541	-1.040	-.570	-.160	.049
11	-1.748	-2.975	*000.000	-1.685	-1.170	-.535	.056
12	-1.150	-1.070	-.810	-.442	-.397	-.147	-.061
13	-1.243	-.793	-.695	-.408	-.348	-.164	-.029
14	-1.549	-.944	-.675	-.447	-.263	-.212	-.261
15	-.797	.433	.195	.042	-.175	-.112	.033
16	-.424	.040	.217	.446	.245	-.025	-.066
17	-.678	-.258	.121	.262	.228	.113	-.065
18	-.524	-.195	.058	.258	.091	-.025	-.088
19	-1.541	-.863	-.492	-.200	.083	-.232	-.390
20	-1.382	-.980	-.801	-.579	-.627	-.451	-.311
21	-1.593	-1.016	-.763	-.538	-.302	-.211	-.159
22	-1.527	-1.008	-.882	-.697	-.647	-.620	-.331
23	-.671	-.610	-.449	-.350	-.268	-.279	-.152
24	-.341	-.304	-.121	-.206	-.384	-.231	-.177
25	-3.614	-2.258	-3.214	1.550	1.164	-1.198	-.323
26	.126	.587	.457	.534	*000.000	-.132	.009
27	.674	1.426	1.649	-.065	-.872	-.182	.123
28	.044	.214	.330	.048	-.141	-.141	.025
29	-.146	.316	.852	.211	.053	.176	.047
30	.744	1.268	1.179	1.782	1.970	.594	-.040
31	.129	.665	.471	.488	.568	.308	.127
32	.146	.496	.839	.743	.245	.250	.048
33	.288	.361	.498	.329	.478	.115	.092

$\alpha = 80°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-4.516	-4.439	-4.731	.486	.893	-.032	-.178
2	-4.197	-5.027	-4.779	-.017	.607	-.197	-.127
3	-3.760	-4.820	-4.961	-.087	.365	.086	-.039
4	-3.862	-4.674	-4.240	-.576	.163	.034	-.140
5	-4.481	-6.870	-5.701	-1.701	-.896	-.301	-.079
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.394	-2.427	-1.939	-1.141	-.352	-.084	-.166
11	-1.377	-2.215	*000.000	-1.527	-.558	-.186	-.164
12	-.972	-1.159	-.784	-.504	-.430	-.400	-.178
13	-1.608	-1.193	-1.032	-.617	-.105	-.192	-.165
14	-1.048	-.724	-.481	-.353	-.327	-.341	-.235
15	-.660	.110	.194	.183	-.033	-.151	.057
16	-.537	-.035	.194	.416	.224	-.017	-.121
17	-.735	-.174	.014	.287	.428	.071	-.151
18	-.744	-.092	.060	.100	-.019	-.164	-.030
19	-.562	-.399	-.261	.011	.186	-.081	-.094
20	-1.112	-.912	-.706	-.473	-.387	-.420	-.259
21	-1.585	-1.066	-.931	-.629	-.404	-.267	-.343
22	-1.527	-.895	-.914	-.625	-.447	-.323	-.143
23	-.643	-.773	-.672	-.497	-.388	-.430	-.432
24	-.265	-.474	-.645	-.356	-.469	-.176	-.286
25	-2.532	-1.618	-2.275	.892	.803	-.358	-.207
26	.264	.572	.606	.854	*000.000	-.469	-.138
27	.229	.685	.670	.204	-.545	-.274	-.070
28	.008	.261	.542	-.075	-.193	-.076	-.026
29	.066	.254	.806	.252	-.194	-.304	.023
30	.461	.726	.695	1.121	1.005	.157	-.063
31	.163	.696	.468	.533	.691	.354	.048
32	.308	.438	.527	.507	.614	.259	.061
33	.086	.022	.211	.299	.241	.164	.210

Table 16. - Continued.

(b) $C_{T,S} = 0.80$, $q_s = 19.97$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.477	.782	.472	.368	1.040	1.145	.244
2	.324	.093	.064	.892	1.118	1.035	.061
3	.099	-.152	-.214	1.023	1.027	.881	.034
4	-.260	-.582	-.542	1.021	.716	.497	-.204
5	-.581	-.882	-.854	.468	.272	.065	-.334
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.585	-.840	-1.036	-.176	-.200	-.196	-.187
11	-.483	-.496	*000.000	-.439	-.654	-.562	-.444
12	-1.063	-.614	-.663	-.241	-.592	-.431	-.296
13	-.817	-.492	-.507	-.307	-.432	-.329	-.167
14	-.422	-.432	-.469	-.305	-.414	-.296	-.152
15	-.184	.711	.064	.272	.146	.053	-.238
16	.224	.094	.199	.229	.327	.197	.045
17	.240	.133	.243	.188	.289	.243	.038
18	.235	.121	.208	.161	.241	.150	-.001
19	.084	-.072	-.104	.007	.021	.016	-.015
20	-.477	-.580	-.583	-.318	-.511	-.378	-.206
21	-.647	-.844	-.885	-.592	-.763	-.601	-.384
22	-.722	-.843	-.838	-.687	-.762	-.683	-.382
23	-.615	-.864	-.298	-.151	-.221	-.307	-.279
24	-.421	.128	.144	.059	.089	.087	-.118
25	.493	1.088	.776	-1.131	-.147	.126	.179
26	.594	.879	.787	-.817	*000.000	*.520	.144
27	-.041	.286	.351	-.536	-.774	-.673	-.006
28	-.010	.102	.232	-.033	-.339	-.198	.007
29	.042	.249	.244	.211	.115	.100	.112
30	.954	.981	.996	.452	1.061	.999	.527
31	.457	.641	.603	.433	.605	.603	.275
32	.243	.461	.504	.440	.422	.329	.154
33	.083	.359	.408	.283	.265	.241	-.130

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.785	.359	-.112	.390	1.137	1.151	.008
2	-.008	-.625	-.979	.433	1.049	.902	-.136
3	-.168	-.740	-.986	.666	.739	.621	-.270
4	-.494	-.944	-.937	.585	.428	.172	-.304
5	-.731	-1.220	-1.258	.241	-.037	-.206	-.454
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.610	-1.019	-1.267	-.332	-.469	-.408	-.449
11	-.583	-1.012	*000.000	-.494	-.793	-.643	-.500
12	-1.041	-.623	-.687	-.259	-.627	-.461	-.301
13	-.389	-.507	-.524	-.328	-.478	-.361	-.260
14	-.437	-.455	-.475	-.353	-.483	-.352	-.246
15	-.129	.618	.105	.288	.093	.065	-.317
16	.114	.143	.219	.256	.266	.243	-.004
17	.130	.161	.236	.230	.252	.194	-.010
18	.155	.142	.169	.216	.201	.128	-.054
19	-.048	-.094	-.118	.010	-.045	-.007	-.067
20	-.581	-.630	-.626	-.404	-.584	-.481	-.393
21	-.852	-.917	-.875	-.605	-.864	-.745	-.504
22	-.908	-.893	-.846	-.707	-.868	-.866	-.578
23	-.945	-.853	-.346	-.109	-.303	-.390	-.363
24	-.559	.097	.144	-.092	.105	.074	-.093
25	1.107	1.119	.562	-.497	.361	.605	.159
26	.790	1.075	.854	-.373	*000.000	-.144	.319
27	.132	.505	.538	-.388	-.599	-.473	-.059
28	.027	.273	.375	.034	-.247	-.179	-.031
29	.036	.309	.308	.266	.145	.134	.089
30	.922	.992	.936	.529	1.087	1.057	.613
31	.414	.632	.642	.559	.584	.546	.221
32	.246	.473	.544	.491	.451	.369	.310
33	.098	.384	.449	.450	.277	.237	-.076

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.513	-.120	-.853	.516	1.183	1.128	.005
2	-.257	-1.053	-1.554	.439	.830	.690	-.241
3	-.515	-1.373	-1.776	.478	.542	.452	-.540
4	-.847	-1.551	-1.640	.469	.172	-.023	-.593
5	-.953	-1.597	-1.709	.005	-.253	-.514	-.714
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.761	-1.295	-1.498	-.481	-.615	-.523	-.519
11	-.611	-1.097	*000.000	-.582	-.862	-.704	-.566
12	-1.142	-.693	-.697	-.306	-.651	-.497	-.414
13	-.494	-.606	-.543	-.380	-.530	-.424	-.318
14	-.554	-.531	-.470	-.360	-.441	-.376	-.268
15	-.157	.443	.218	.286	.072	.053	-.348
16	-.007	.175	.276	.297	.295	.311	-.145
17	-.044	.145	.259	.274	.306	.357	.003
18	-.048	.117	.208	.224	.275	.269	.024
19	-.211	-.143	-.115	.042	-.048	.015	-.080
20	-.804	-.695	-.664	-.401	-.584	-.518	-.360
21	-1.172	-1.020	-.855	-.656	-.904	-.749	-.457
22	-1.324	-.988	-.838	-.695	-.867	-.840	-.510
23	-1.173	-.901	-.311	-.157	-.287	-.381	-.346
24	-.510	.047	.152	.095	.146	.106	-.127
25	1.120	.930	.253	-.046	.693	.871	.298
26	.875	1.071	.816	.002	*000.000	.296	-.338
27	.300	.858	.697	-.020	-.302	-.288	-.010
28	.087	.351	.474	-.013	-.126	-.102	.011
29	.038	.342	.383	.339	.212	.228	.170
30	.843	.943	.934	.643	1.153	1.169	.958
31	.405	.619	.664	.464	.647	.666	.348
32	.199	.462	.552	.440	.486	.440	.431
33	.067	.330	.404	.344	.344	.275	-.129

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.298	-.679	-1.872	.364	1.196	1.135	-.059
2	-.665	-1.752	-2.429	.554	.648	.419	-.456
3	-.819	-1.882	-2.710	.246	.313	.119	-.630
4	-1.066	-1.987	-2.345	.068	-.174	-.446	-.939
5	-1.221	-2.162	-2.401	-.303	-.628	-.846	-.931
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.784	-1.398	-1.678	-.465	-.752	-.661	-.539
11	-.663	-1.084	*000.000	-.609	-.923	-.768	-.607
12	-1.142	-.705	-.659	-.344	-.690	-.542	-.435
13	-.606	-.615	-.525	-.354	-.541	-.455	-.334
14	-.755	-.602	-.514	-.394	-.531	-.416	-.314
15	-.260	.288	.306	.274	.087	.118	-.328
16	-.248	.220	.262	.403	.290	.267	-.100
17	-.231	.160	.234	.366	.300	.307	-.028
18	-.249	.115	.178	.306	.276	.242	-.027
19	-.386	-.156	-.144	.103	-.060	.010	-.031
20	-.963	-.719	-.611	-.415	-.619	-.539	-.394
21	-1.427	-1.014	-.816	-.686	-.935	-.828	-.435
22	-1.728	-1.070	-.757	-.768	-.936	-.889	-.481
23	-1.450	-.523	-.270	-.220	-.322	-.498	-.389
24	-.670	.046	.082	.149	.156	.058	-.144
25	1.087	.704	-.452	.227	.983	1.005	.076
26	.974	1.073	.745	.303	*000.000	.420	.310
27	.414	.824	.822	.322	-.140	-.187	.131
28	.143	.488	.609	.160	-.024	-.049	.084
29	.031	.388	.459	.336	.264	.216	.135
30	.828	.961	.968	.966	1.215	1.170	.860
31	.382	.674	.705	.705	.696	.693	.395
32	.203	.507	.610	.555	.559	.445	.424
33	.022	.361	.455	.409	.367	.313	-.030

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.087	-1.367	-2.748	.554	1.042	1.032	-.513
2	-1.038	-2.366	-3.205	.010	.279	.120	-.956
3	-1.366	-2.749	-3.966	.009	-.075	-.197	-.961
4	-1.554	-2.760	-3.141	-.248	-.596	-.746	-1.278
5	-1.560	-2.413	-2.845	-.479	-.915	-.971	-1.090
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.960	-1.586	-1.712	-.753	-.921	-.782	-.633
11	-.810	-1.221	*000.000	-.737	-1.063	-.860	-.621
12	-1.153	-.745	-.651	-.469	-.772	-.589	-.356
13	-.768	-.662	-.526	-.441	-.579	-.469	-.288
14	-.490	-.653	-.499	-.469	-.573	-.456	-.268
15	-.333	.181	.378	.270	.121	.137	-.197
16	-.446	.189	.318	.381	.290	.324	-.032
17	-.462	.131	.258	.400	.295	.310	.013
18	-.421	.075	.182	.310	.229	.247	-.008
19	-.542	-.176	-.176	.033	-.076	-.008	-.025
20	-1.241	-.767	-.621	-.562	-.673	-.569	-.377
21	-1.852	-1.119	-.744	-.873	-1.018	-.899	-.524
22	-2.126	-1.127	-.674	-.892	-.987	-.982	-.542
23	-1.751	-.563	-.249	-.335	-.363	-.510	-.352
24	-.690	.027	.045	.102	.135	.057	-.098
25	.941	.305	-.992	.464	1.062	1.057	.008
26	1.093	1.110	.777	.547	*000.000	.598	.229
27	.497	.893	.927	.479	.047	-.071	.027
28	.196	.548	.660	.178	.059	-.018	.053
29	.002	.404	.539	.263	.291	.242	.172
30	.805	1.043	1.043	1.166	1.297	1.294	.974
31	.350	.688	.752	.670	.709	.703	.574
32	.164	.501	.641	.541	.567	.480	.581
33	-.015	.332	.496	.390	.400	.301	-.219

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.422	-2.161	-3.771	.405	.775	.834	-.974
2	-1.445	-3.313	-4.372	-.186	-.101	-.121	-1.231
3	-1.800	-3.534	-5.093	-.414	-.636	-.539	-1.491
4	-1.862	-3.262	-3.911	-.665	-.922	-1.034	-1.580
5	-1.634	-2.756	-3.051	-.884	-1.188	-1.148	-1.170
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.117	-1.801	-2.004	-.924	-1.118	-.917	-.711
11	-.872	-1.340	*000.000	-.914	-1.214	-.900	-.606
12	-1.084	-.798	-.678	-.459	-.784	-.578	-.342
13	-.855	-.672	-.503	-.471	-.589	-.436	-.239
14	-1.078	-.624	-.511	-.470	-.549	-.386	-.271
15	-.430	.180	.408	.337	.132	.196	-.305
16	-.571	.188	.327	.423	.289	.359	-.123
17	-.609	.111	.227	.436	.299	.383	-.110
18	-.563	.079	.157	.355	.243	.275	-.010
19	-.708	-.228	-.252	.034	-.056	.024	-.065
20	-1.399	-.754	-.622	-.655	-.721	-.461	-.380
21	-2.073	-1.132	-.738	-.954	-1.084	-.887	-.423
22	-2.361	-1.131	-.600	-.942	-1.048	-.925	-.572
23	-1.945	-.579	-.329	-.360	-.387	-.459	-.410
24	-.762	-.061	-.033	.103	.136	.003	-.199
25	.933	-.110	-1.495	.758	1.297	1.298	-.256
26	1.143	1.035	.664	.735	*000.000	.816	.259
27	.684	1.009	1.029	.398	.290	.086	.120
28	.238	.613	.686	.235	.148	.048	.085
29	.021	.432	.571	.398	.326	.285	.179
30	.894	.941	1.001	1.041	1.212	1.207	.900
31	.351	.681	.748	.713	.756	.724	.477
32	.138	.484	.616	.560	.571	.434	.329
33	.015	.352	.441	.423	.428	.326	-.084

Table 16. - Continued.

(b) $C_{T,s} = 0.80$, $q_s = 19.97$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.931	-2.842	-4.418	.358	.666	.872	-.800
2	-1.889	-3.783	-4.724	-.519	-.319	-.156	-1.125
3	-2.127	-3.838	-5.455	-.485	-.764	-.461	-1.240
4	-2.183	-3.648	-4.312	-.945	-1.220	-1.147	-1.400
5	-1.963	-3.084	-3.401	-1.056	-1.431	-1.140	-.700
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.164	-1.771	-1.882	-.980	-1.107	-.803	-.389
11	-1.001	-1.351	.000.000	-.955	-1.171	-.706	-.228
12	-1.162	-.837	-.668	-.475	-.812	-.484	-.254
13	-1.064	-.651	-.441	-.474	-.578	-.366	-.241
14	-1.302	-.650	-.478	-.510	-.553	-.356	-.254
15	-.632	.152	.476	.382	.091	.162	-.461
16	-.659	.194	.348	.467	.246	.431	-.181
17	-.786	.098	.274	.437	.319	.376	-.113
18	-.762	.036	.183	.399	.231	.305	.024
19	-.881	-.222	-.138	.062	-.098	.085	-.018
20	-1.697	-.779	-.643	-.646	-.735	-.569	-.374
21	-2.234	-1.067	-.666	-.921	-.974	-.593	-.465
22	-2.680	-1.081	-.642	-1.000	-1.034	-.590	-.385
23	-2.665	-.532	-.316	-.371	-.429	-.497	-.296
24	-.888	-.072	-.026	.164	.084	-.151	-.263
25	.594	-.576	-1.981	.852	1.252	1.162	-.417
26	1.112	.947	.594	1.065	.000.000	.860	.098
27	.859	1.020	1.012	.802	.392	.105	.078
28	.294	.686	.829	.306	.213	.051	.190
29	-.054	.466	.650	.450	.336	.279	.219
30	.598	.970	1.093	1.226	1.263	1.253	.667
31	.262	.701	.829	.764	.728	.740	.359
32	.072	.499	.708	.639	.553	.401	.329
33	-.023	.301	.488	.447	.392	.232	-.101

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.484	-3.616	-5.230	-.064	.393	.664	-1.264
2	-2.642	-4.932	-6.041	-.910	-.621	-.297	-1.614
3	-2.700	-4.572	-6.175	-1.157	-1.049	-.594	-1.440
4	-2.488	-3.991	-4.536	-1.242	-1.212	-.985	-1.143
5	-2.176	-3.317	-3.591	-1.356	-1.549	-1.246	-.971
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.372	-1.999	-2.017	-1.252	-1.187	-.652	-.329
11	-1.127	-1.424	.000.000	-1.042	-1.141	-.581	-.309
12	-1.077	-.894	-.730	-.554	-.763	-.420	-.418
13	-1.349	-.799	-.624	-.590	-.633	-.476	-.443
14	-1.576	-.722	-.596	-.565	-.532	-.424	-.420
15	-.608	.139	.410	.356	.115	.143	-.424
16	-1.050	.138	.290	.432	.294	.332	-.219
17	-1.011	.047	.217	.439	.307	.347	-.135
18	-.955	-.014	.116	.332	.213	.203	-.118
19	-1.180	-.315	-.275	-.019	-.118	.013	-.241
20	-2.096	-.920	-.824	-.787	-.702	-.476	-.488
21	-2.588	-1.118	-.835	-.991	-.975	-.506	-.451
22	-2.980	-1.134	-.791	-1.110	-1.093	-.688	-.784
23	-2.204	-.611	-.496	-.423	-.521	-.529	-.734
24	-1.057	-.177	-.139	.125	.023	-.135	-.277
25	.367	-1.159	-2.659	1.028	1.306	1.206	-.672
26	1.077	.807	.463	1.055	.000.000	.838	-.127
27	.732	1.008	.983	.632	.468	.168	-.090
28	.276	.683	.792	.304	.244	.055	.086
29	-.084	.420	.570	.412	.310	.177	.071
30	.496	.936	1.039	1.214	1.261	1.262	.409
31	.192	.695	.786	.784	.707	.578	.151
32	.012	.471	.618	.604	.525	.370	.148
33	-.096	.248	.403	.438	.345	.240	-.080

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.982	-4.286	-5.738	-.169	.314	.602	-1.113
2	-2.893	-4.852	-5.582	-1.123	-.713	-.182	-1.185
3	-3.347	-5.369	-6.944	-1.283	-1.303	-.609	-1.371
4	-3.125	-4.771	-5.296	-1.684	-1.619	-1.094	-.943
5	-2.494	-3.567	-3.729	-1.590	-1.696	-1.018	-.736
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.588	-2.161	-2.038	-1.416	-1.199	-.461	-.290
11	-1.238	-1.486	.000.000	-1.164	-1.204	-.515	-.317
12	-1.138	-.940	-.724	-.600	-.716	-.316	-.371
13	-1.498	-.793	-.637	-.572	-.515	-.332	-.333
14	-1.673	-.742	-.604	-.563	-.521	-.285	-.348
15	-1.048	.165	.471	.359	.045	.154	-.338
16	-1.191	.128	.338	.469	.266	.370	-.247
17	-1.231	.018	.258	.443	.352	.332	-.111
18	-1.185	-.055	.118	.316	.253	.278	-.070
19	-1.324	-.348	-.195	-.025	-.042	.050	-.191
20	-2.219	-.931	-.754	-.748	-.669	-.482	-.338
21	-2.876	-1.136	-.867	-1.080	-1.037	-.609	-.607
22	-3.096	-1.144	-.844	-1.105	-.975	-.645	-.655
23	-2.081	-.643	-.516	-.445	-.530	-.407	-.556
24	-1.019	-.216	-.142	.090	-.132	-.197	-.252
25	.089	-1.479	-2.899	.943	1.268	1.208	-.826
26	1.086	.780	.483	1.150	.000.000	.896	-.293
27	.778	1.030	1.040	.721	.580	.146	-.018
28	.241	.725	.855	.286	.293	.107	-.043
29	-.113	.451	.655	.385	.319	.229	.078
30	.456	.922	1.043	1.151	1.190	1.117	.503
31	.141	.743	.864	.781	.711	.658	.244
32	.029	.495	.655	.583	.518	.383	.181
33	-.042	.247	.423	.436	.360	.257	-.056

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.736	-4.793	-6.063	-.459	.127	.663	-1.117
2	-3.838	-5.887	-6.807	-1.579	-1.030	-.348	-.945
3	-3.869	-5.722	-7.064	-1.664	-1.335	-.466	-.612
4	-3.655	-5.095	-5.460	-2.038	-1.723	-1.038	-.843
5	-2.943	-3.971	-4.049	-2.017	-1.835	-1.138	-.755
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.746	-2.252	-2.078	-1.500	-1.102	-.316	-.108
11	-1.270	-1.515	.000.000	-1.170	-1.106	-.459	-.240
12	-1.096	-.948	-.713	-.542	-.637	-.285	-.209
13	-1.742	-.812	-.632	-.562	-.483	-.271	-.366
14	-2.092	-.818	-.636	-.572	-.481	-.266	-.289
15	-1.078	-.139	.416	.382	.068	.216	-.080
16	-1.335	.084	.299	.488	.287	.351	-.115
17	-1.296	-.017	.227	.437	.317	.368	-.057
18	-1.273	-.121	.122	.310	.255	.170	-.295
19	-1.534	-.497	-.279	-.079	-.052	.061	-.130
20	-2.562	-1.075	-.885	-.816	-.575	-.351	-.578
21	-3.201	-1.230	-1.030	-1.090	-1.043	-.517	-.600
22	-2.986	-1.136	-.922	-1.028	-.703	-.524	-.537
23	-1.849	-.767	-.651	-.447	-.483	-.353	-.311
24	-.813	-.297	-.185	.087	-.130	-.180	-.362
25	-.515	-1.959	-3.232	.998	1.287	1.071	-.754
26	.948	.711	.321	1.174	.000.000	.673	-.121
27	.771	1.055	1.035	.786	.671	.148	.119
28	.263	.739	.874	.308	.346	.112	-.004
29	-.160	.417	.618	.380	.330	.303	.177
30	.435	.947	1.061	1.177	1.205	1.239	.525
31	.144	.688	.806	.761	.728	.561	.272
32	-.024	.455	.646	.599	.549	.385	.344
33	-.065	.213	.401	.432	.303	.173	-.297

Table 16. - Continued.

(b) $C_{T,s} = 0.80$, $q_s = 19.97$

$\alpha = 55°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-5.546	-5.343	-6.460	-.588	.040	.350	-1.038
2	-4.888	-5.782	-7.213	-1.770	-1.029	-.135	-.679
3	-4.440	-6.147	-7.184	-1.924	-1.372	-.685	-1.174
4	-4.234	-5.446	-5.731	-2.255	-1.851	-1.051	-1.034
5	-3.107	-4.025	-3.900	-2.014	-1.772	-.850	-.469
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.925	-2.415	-2.081	-1.648	-1.207	-.430	-.346
11	-1.300	-1.513	.000.000	-1.175	-1.039	-.385	-.264
12	-1.142	-1.008	-.765	-.655	-.650	-.297	-.328
13	-2.012	-.921	-.709	-.636	-.509	-.273	-.263
14	-2.425	-.922	-.718	-.620	-.582	-.350	-.448
15	-1.134	.150	.448	.324	.030	.220	-.470
16	-1.324	.074	.305	.462	.234	.276	-.189
17	-1.360	-.081	.230	.430	.322	.278	-.163
18	-1.301	-.112	.135	.278	.245	.152	-.233
19	-1.410	-.501	-.321	-.065	-.031	-.004	-.080
20	-2.425	-1.096	-.933	-.817	-.707	-.463	-.446
21	-2.886	-1.291	-1.102	-1.060	-.774	-.486	-.633
22	-2.996	-1.234	-1.049	-1.118	-.953	-.554	-.716
23	-1.622	-.807	-.713	-.636	-.513	-.382	-.517
24	-.742	-.300	-.145	.068	-.122	-.148	-.206
25	-1.271	-2.422	-3.507	.774	1.213	.868	-.859
26	.610	.695	.351	1.159	.000.000	.785	-.304
27	.587	1.101	1.055	.813	.637	.100	-.158
28	.178	.766	.951	.334	.382	.031	-.050
29	-.236	.425	.676	.364	.280	.186	.087
30	.463	1.003	1.104	1.208	1.215	1.091	.321
31	.044	.720	.779	.740	.669	.404	.178
32	-.007	.496	.616	.578	.488	.295	.193
33	-.045	.224	.385	.406	.295	.151	-.072

$\alpha = 60°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-5.783	-6.396	-6.904	-.790	.026	.356	-1.180
2	-5.844	-7.503	-7.496	-2.031	-1.101	-.184	-.747
3	-4.884	-6.501	-7.274	-2.327	-1.765	-.673	-1.085
4	-4.560	-5.811	-5.627	-2.358	-1.690	-.650	-.457
5	-3.301	-4.400	-4.122	-2.100	-1.803	-.989	-.726
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.836	-2.445	-2.032	-1.601	-1.142	-.377	-.207
11	-1.356	-1.667	.000.000	-1.278	-.993	-.311	-.153
12	-1.212	-1.087	-.861	-.658	-.610	-.224	-.090
13	-2.010	-.957	-.771	-.612	-.451	-.164	-.259
14	-2.162	-.927	-.786	-.588	-.486	-.292	-.348
15	-1.096	.155	.404	.324	.047	.270	-.286
16	-1.137	.054	.224	.414	.241	.220	-.118
17	-1.109	-.015	.165	.417	.362	.354	-.066
18	-.941	-.128	.049	.259	.264	.221	-.097
19	-1.244	-.514	-.357	-.074	.051	.038	-.235
20	-2.120	-1.122	-.998	-.762	-.536	-.342	-.481
21	-2.547	-1.265	-1.137	-.940	-.748	-.391	-.393
22	-2.543	-1.228	-1.175	-1.015	-.880	-.396	-.596
23	-1.174	-.725	-.743	-.387	-.409	-.367	-.338
24	-.643	-.278	-.121	.035	-.127	-.147	-.210
25	-2.130	-2.556	-3.413	.768	1.107	.536	-1.135
26	.257	.624	.339	1.216	.000.000	.467	-.244
27	.435	1.065	.992	.828	.644	.031	-.017
28	.125	.750	.883	.360	.429	.127	.127
29	-.220	.425	.617	.398	.323	.223	.188
30	.264	.970	.913	1.159	1.203	.917	.018
31	.048	.759	.654	.726	.687	.614	.138
32	.024	.465	.523	.531	.475	.322	.270
33	.045	.207	.302	.366	.288	.176	-.042

$\alpha = 65°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-5.362	-6.540	-6.597	-.830	-.061	.366	-.331
2	-5.924	-7.496	-7.052	-2.087	-1.171	.099	-.399
3	-5.440	-7.458	-8.396	-2.624	-1.839	-.282	-.543
4	-4.391	-6.040	-5.573	-2.613	-1.807	-.710	-.547
5	-3.233	-4.877	-4.341	-2.413	-1.836	-.466	-.328
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.638	-2.575	-2.172	-1.759	-1.234	-.440	-.256
11	-1.200	-1.599	.000.000	-1.328	-.963	-.309	-.185
12	-1.194	-1.092	-.810	-.738	-.614	-.264	-.167
13	-1.999	-.942	-.777	-.642	-.500	-.206	-.260
14	-1.782	-.954	-.805	-.614	-.448	-.278	-.192
15	-.863	.148	.362	.307	.097	.344	-.223
16	-.999	.047	.235	.416	.241	.335	-.058
17	-1.078	-.078	.119	.349	.298	.253	-.049
18	-.968	-.129	.016	.258	.226	.232	-.082
19	-1.181	-.504	-.408	-.124	-.087	-.039	-.051
20	-1.850	-1.075	-.945	-.800	-.605	-.335	-.370
21	-2.061	-1.227	-1.139	-1.021	-.752	-.428	-.471
22	-1.962	-1.092	-1.128	-1.015	-.679	-.351	-.343
23	-1.112	-.742	-.708	-.459	-.449	-.336	-.417
24	-.631	-.277	-.122	.017	-.117	-.171	-.183
25	-3.344	-3.060	-3.451	.786	1.128	.545	-.334
26	-.331	.435	.267	1.118	.000.000	.305	-.237
27	.051	.896	.996	.784	.545	.004	.004
28	0.	.627	.901	.358	.237	.022	.078
29	-.185	.350	.622	.347	.278	.175	.186
30	.161	.919	.764	1.099	1.103	.870	.204
31	-.027	.714	.435	.721	.621	.430	.188
32	.012	.428	.390	.504	.439	.312	.319
33	.020	.165	.314	.389	.308	.272	.139

$\alpha = 70°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-5.556	-7.140	-6.337	-.735	.282	.278	-.231
2	-5.312	-7.821	-6.616	-2.132	-.904	.260	-.359
3	-4.923	-7.730	-7.470	-2.338	-1.115	.027	-.315
4	-4.112	-6.475	-5.661	-2.566	-1.621	-.259	-.321
5	-2.841	-4.929	-4.064	-2.373	-1.436	-.315	-.256
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.592	-2.527	-2.015	-1.664	-.901	-.212	-.224
11	-1.082	-1.520	.000.000	-1.234	-.675	-.199	-.235
12	-1.088	-.995	-.748	-.716	-.336	-.224	-.255
13	-1.833	-.924	-.724	-.548	-.332	-.241	-.282
14	-1.566	-.918	-.772	-.575	-.351	-.253	-.324
15	-.765	.144	.358	.219	-.020	.208	-.192
16	-.911	.086	.281	.424	.335	.330	-.247
17	-.990	-.016	.145	.365	.384	.258	-.180
18	-.793	-.093	.047	.224	.323	.175	-.144
19	-.953	-.421	-.269	-.102	.078	-.004	-.270
20	-1.532	-.925	-.847	-.685	-.405	-.308	-.331
21	-1.725	-1.101	-1.074	-.802	-.457	-.535	-.502
22	-1.538	-1.000	-1.021	-.760	-.537	-.511	-.631
23	-.820	-.614	-.555	-.389	-.352	-.421	-.478
24	-.440	-.238	-.048	-.092	-.144	-.175	-.261
25	-4.017	-3.515	-3.483	.732	1.137	.500	-.298
26	-.798	.090	.328	1.170	.000.000	.381	-.020
27	-.196	.720	1.022	.844	.632	-.017	-.051
28	-.036	.516	.891	.296	.240	.120	.035
29	-.187	.267	.513	.294	.239	.196	.056
30	.171	.925	.549	1.107	1.141	.962	.237
31	-.015	.707	.411	.704	.649	.403	.192
32	.007	.400	.408	.486	.424	.315	.179
33	.039	.168	.276	.294	.237	.189	.088

Table 16. - Continued.

(c) $C_{T,s} = 0.60$, $q_s = 21.93$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.884	.641	.354	.720	1.146	1.144	.521
2	.279	-.174	-.253	.716	.977	.851	.269
3	.025	-.344	-.406	.704	.673	.605	.052
4	-.419	-.843	-.765	.257	.383	.235	-.141
5	-.709	-1.190	-1.176	-.181	-.109	-.283	-.498
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-.834	-.998	-1.185	-.548	-.527	-.420	-.367
11	-.888	-1.048	.000,000	-.763	-.879	-.749	-.618
12	-1.104	-.849	-.641	-.411	-.673	-.534	-.395
13	-.425	-.577	-.528	-.396	-.526	-.429	-.256
14	-.542	-.573	-.504	-.411	-.540	-.422	-.241
15	-.178	.681	.014	.216	.094	-.012	-.283
16	.137	.056	.177	.226	.293	.194	-.024
17	.130	.064	.148	.181	.262	.238	.003
18	.136	.082	.152	.171	.211	.160	.005
19	-.043	-.172	-.136	0.	-.061	-.050	-.138
20	-.607	-.698	-.604	-.359	-.616	-.541	-.426
21	-.921	-.996	-.880	-.641	-.902	-.747	-.477
22	-1.041	-.975	-.842	-.651	-.883	-.825	-.496
23	-.916	-.805	-.296	-.036	-.268	-.365	-.314
24	-.857	.111	.157	.095	.102	.039	-.141
25	1.004	1.129	.685	.077	.624	.678	.484
26	.498	.762	.603	-.041	.000,000	-.066	.118
27	-.056	.261	.197	-.047	-.518	-.435	-.093
28	-.057	.098	.137	.008	-.281	-.162	-.001
29	.014	.207	.213	.234	.168	.167	-.009
30	.874	.973	.846	.456	1.101	1.094	.875
31	.440	.656	.561	.438	.647	.627	.295
32	.238	.450	.467	.298	.438	.343	.255
33	.033	.340	.349	.245	.270	.217	-.083

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.822	.025	-.579	.638	1.184	1.106	.318
2	-.191	-.917	-1.168	.568	.592	.486	-.141
3	-.405	-1.088	-1.268	.412	.317	.213	-.281
4	-.726	-1.378	-1.366	-.204	-.123	-.251	-.591
5	-.941	-1.530	-1.494	-.564	-.644	-.721	-.887
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-.837	-1.272	-1.421	-.815	-.813	-.683	-.596
11	-.761	-1.148	.000,000	-.823	-1.045	-.885	-.748
12	-1.210	-.811	-.741	-.525	-.823	-.631	-.508
13	-.532	-.625	-.536	-.411	-.589	-.489	-.328
14	-.629	-.603	-.498	-.444	-.572	-.436	-.343
15	-.219	.530	.058	.284	.055	-.009	-.436
16	.002	.107	.173	.253	.233	.194	-.156
17	-.037	.131	.204	.241	.245	.270	-.033
18	-.022	.073	.150	.158	.205	.146	-.011
19	-.203	-.175	-.144	.006	-.089	-.048	-.139
20	-.827	-.755	-.646	-.511	-.702	-.655	-.483
21	-1.264	-1.112	-.943	-.808	-1.093	-.932	-.691
22	-1.471	-1.075	-.870	-.814	-.999	-.933	-.631
23	-1.314	-.523	-.320	-.157	-.341	-.455	-.458
24	-.713	.043	.125	.074	.115	.094	-.176
25	1.096	1.049	.307	.284	.996	1.113	.731
26	.781	1.036	.644	.216	.000,000	.454	.418
27	.194	.539	.496	-.011	-.166	-.099	-.004
28	.049	.229	.307	.078	-.086	-.050	.076
29	.053	.288	.306	.288	.228	.223	.193
30	.884	.987	.921	.711	1.178	1.164	1.061
31	.407	.616	.561	.481	.634	.619	.375
32	.187	.447	.491	.424	.484	.413	.439
33	.020	.353	.393	.358	.359	.301	-.307

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.239	-.592	-1.435	.056	.886	.783	.155
2	-.612	-1.632	-2.119	-.424	.104	-.123	-.588
3	-.982	-2.147	-2.682	-.554	-.334	-.423	-.853
4	-1.114	-2.009	-2.139	-.831	-.669	-.877	-1.103
5	-1.272	-2.047	-2.043	-1.000	-1.190	-1.263	-1.275
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-1.003	-1.514	-1.642	-1.013	-1.145	-1.075	-.902
11	-.815	-1.233	.000,000	-.886	-1.221	-1.116	-.894
12	-1.291	-.837	-.763	-.537	-.907	-.789	-.584
13	-.677	-.703	-.595	-.487	-.660	-.601	-.388
14	-.800	-.610	-.493	-.436	-.592	-.512	-.362
15	-.240	.443	.258	.321	.100	.026	-.359
16	-.244	.145	.203	.370	.249	.185	-.117
17	-.225	.047	.203	.328	.279	.254	-.084
18	-.239	.041	.130	.280	.211	.131	-.088
19	-.371	-.199	-.149	.044	-.120	-.085	-.142
20	-1.017	-.773	-.659	-.583	-.765	-.745	-.473
21	-1.556	-1.092	-.999	-.888	-1.107	-1.012	-.684
22	-1.760	-1.014	-.746	-.832	-.993	-.984	-.639
23	-1.765	-.517	-.303	-.293	-.366	-.517	-.488
24	-.763	.049	.094	.130	.143	.032	-.220
25	1.029	.743	-.175	.333	1.094	1.144	.609
26	.998	1.048	.595	.363	.000,000	.861	.753
27	.345	.646	.643	.370	.168	.187	.227
28	.135	.378	.466	.238	.110	.111	.190
29	.038	.328	.400	.363	.293	.279	.279
30	.835	1.007	.985	1.121	1.269	1.241	1.095
31	.384	.666	.631	.711	.735	.698	.526
32	.186	.487	.524	.568	.576	.476	.551
33	.006	.327	.356	.394	.374	.292	-.102

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.287	-1.647	-2.460	-.306	.573	.460	-.305
2	-1.282	-2.635	-3.103	-1.065	-.397	-.638	-1.270
3	-1.460	-2.996	-4.100	-1.361	-1.123	-1.132	-1.649
4	-1.820	-2.887	-3.128	-1.287	-1.498	-1.597	-1.819
5	-1.679	-2.804	-3.040	-1.551	-1.815	-1.870	-1.916
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-1.211	-1.809	-1.959	-1.248	-1.450	-1.279	-1.107
11	-.981	-1.398	.000,000	-1.117	-1.419	-1.269	-1.037
12	-1.575	-.933	-.824	-.685	-1.018	-.862	-.660
13	-.823	-.763	-.609	-.535	-.737	-.655	-.498
14	-1.015	-.699	-.568	-.551	-.676	-.584	-.500
15	-.350	.340	.306	.336	.149	.146	-.520
16	-.453	.167	.285	.416	.262	.272	-.208
17	-.476	.091	.222	.428	.299	.291	-.153
18	-.511	.043	.140	.331	.206	.185	-.090
19	-.620	-.243	-.215	.026	-.147	-.135	-.231
20	-1.427	-.932	-.749	-.745	-.904	-.868	-.600
21	-2.102	-1.283	-.918	-1.062	-1.219	-1.087	-.761
22	-2.321	-1.170	-.742	-.980	-1.044	-1.063	-.773
23	-2.029	-.609	-.337	-.402	-.416	-.591	-.659
24	-.866	0.	.047	.123	.137	.054	-.260
25	.943	.158	-1.347	.395	1.308	1.268	.592
26	1.042	1.028	.608	.669	.000,000	1.074	.755
27	.575	.887	.812	.650	.442	.381	.262
28	.268	.571	.715	.388	.233	.198	.147
29	.044	.424	.531	.395	.387	.342	.254
30	.712	.935	.951	1.162	1.254	1.219	.981
31	.340	.674	.718	.708	.757	.733	.444
32	.179	.472	.534	.539	.581	.470	.450
33	.027	.363	.442	.420	.430	.338	-.208

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.916	-3.004	-4.514	-1.034	-.231	-.205	-1.391
2	-2.034	-4.181	-5.130	-2.144	-1.586	-1.589	-2.421
3	-2.028	-3.844	-5.329	-1.977	-1.861	-1.680	-2.150
4	-2.340	-3.939	-4.511	-2.050	-2.095	-2.095	-2.183
5	-2.044	-3.170	-3.524	-1.968	-2.225	-2.135	-1.927
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-1.352	-2.016	-2.209	-1.517	-1.675	-1.440	-1.183
11	-1.107	-1.542	.000,000	-1.288	-1.633	-1.377	-1.033
12	-1.437	-.997	-.859	-.731	-1.051	-.797	-.591
13	-.985	-.816	-.654	-.614	-.746	-.665	-.595
14	-1.260	-.738	-.584	-.593	-.682	-.599	-.539
15	-.571	.277	.416	.403	.170	.143	-.508
16	-.742	.149	.303	.523	.302	.274	-.284
17	-.755	.080	.250	.492	.325	.260	-.240
18	-.730	.014	.132	.385	.236	.108	-.239
19	-.952	-.311	-.267	.003	-.173	-.164	-.281
20	-1.597	-.838	-.708	-.719	-.841	-.783	-.526
21	-2.372	-1.146	-.799	-1.024	-1.123	-.774	-.392
22	-2.719	-1.125	-.718	-1.017	-1.098	-1.041	-.647
23	-2.242	-.603	-.356	-.390	-.370	-.458	-.419
24	-.994	-.056	-.012	.112	.082	-.111	-.256
25	.567	-.688	-2.153	.377	1.183	1.174	.092
26	1.017	.880	.494	.955	.000,000	1.165	.569
27	.711	.988	.903	.776	.698	.576	.259
28	.260	.596	.707	.410	.353	.276	.239
29	.038	.448	.564	.453	.422	.380	.267
30	.578	.942	1.023	1.223	1.302	1.280	1.152
31	.334	.741	.856	.872	.853	.812	.666
32	.139	.493	.623	.634	.612	.498	.453
33	-.007	.347	.485	.463	.461	.321	-.022

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.525	-4.012	-5.534	-1.313	-.539	-.222	-1.686
2	-2.752	-5.264	-6.313	-2.633	-1.966	-1.626	-2.122
3	-2.776	-5.087	-6.910	-2.696	-2.364	-1.873	-2.086
4	-2.839	-4.741	-5.439	-2.756	-2.657	-2.347	-2.117
5	-2.318	-3.645	-4.074	-2.268	-2.511	-2.191	-1.604
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
8	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
9	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
10	-1.547	-2.240	-2.393	-1.799	-1.772	-1.309	-.814
11	-1.220	-1.603	.000,000	-1.437	-1.661	-1.168	-.680
12	-1.412	-.972	-.848	-.775	-1.003	-.668	-.488
13	-1.154	-.802	-.655	-.624	-.713	-.604	-.509
14	-1.552	-.793	-.651	-.644	-.666	-.652	-.461
15	-.836	.246	.441	.483	.200	.162	-.602
16	-1.012	.176	.304	.510	.295	.222	-.168
17	-1.029	.049	.241	.442	.304	.355	-.119
18	-1.009	.011	.103	.373	.208	.116	-.225
19	-1.180	-.313	-.237	-.024	-.216	-.231	-.242
20	-2.154	-.955	-.820	-.830	-.945	-.698	-.471
21	-2.950	-1.214	-.887	-1.187	-1.162	-.626	-.494
22	-3.114	-1.124	-.772	-1.110	-1.026	-.548	-.432
23	-2.309	-.587	-.427	-.432	-.481	-.555	-.449
24	-1.313	-.072	-.046	.101	.034	-.280	-.347
25	.149	-1.501	-2.937	.323	1.092	1.188	-.741
26	1.138	.871	.410	1.253	.000,000	1.337	.244
27	.789	1.049	1.008	.980	.865	.635	.214
28	.348	.748	.851	.539	.500	.374	.274
29	.008	.513	.689	.504	.486	.446	.352
30	.554	1.009	1.109	1.313	1.376	1.351	.783
31	.282	.797	.883	.880	.863	.812	.641
32	.132	.573	.702	.881	.685	.552	.552
33	.033	.345	.450	.466	.400	.250	-.023

Table 16. - Continued.

(c) $C_{T,s} = 0.60$, $q_s = 21.93$

$\alpha = 35°$

TUBE NO	1	2	3	4	5	6	7
			WING STATIONS				
1	-2.088	-5.065	-7.002	-1.774	-.931	-.319	-1.459
2	-3.625	-6.405	-7.547	-3.248	-2.486	-1.799	-1.801
3	-3.491	-6.020	-7.436	-3.241	-2.859	-2.203	-1.913
4	-3.235	-5.232	-5.946	-3.160	-2.868	-2.166	-1.305
5	-2.862	-4.120	-4.570	-2.803	-2.765	-2.107	-1.223
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.765	-2.516	-2.659	-2.188	-1.905	-1.224	-.533
11	-1.255	-1.544	*000.000	-1.466	-1.466	-.861	-.388
12	-1.457	-1.012	-.937	-.846	-.920	-.594	-.348
13	-1.384	-.877	-.793	-.667	-.707	-.555	-.304
14	-1.472	-.749	-.685	-.714	-.659	-.434	-.355
15	-1.074	.234	.451	.432	.143	.125	-.427
16	-1.245	.155	.277	.517	.297	.302	-.203
17	-1.048	.061	.193	.436	.288	.310	-.085
18	-1.103	-.031	.087	.328	.213	.208	-.091
19	-1.363	-.346	-.326	-.098	-.146	-.132	-.176
20	-2.444	-.912	-.950	-.917	-.840	-.533	-.462
21	-3.424	-1.147	-.999	-1.223	-1.231	-.676	-.483
22	-3.448	-1.016	-.912	-1.131	-.916	-.444	-.345
23	-2.419	-.556	-.592	-.456	-.546	-.591	-.457
24	-1.338	-.234	-.124	.081	-.147	-.468	-.415
25	-.339	-2.489	-3.881	.191	.899	1.071	-1.020
26	.922	.570	.207	1.201	*000.000	1.193	.253
27	.856	1.037	.949	1.122	.957	.689	.344
28	.388	.826	.947	.568	.526	.373	.326
29	-.020	.532	.704	.507	.479	.390	.339
30	.402	.931	1.006	1.200	1.665	1.171	.746
31	.197	.753	.821	.851	.786	.726	.478
32	.083	.537	.647	.636	.601	.419	.422
33	-.013	.247	.443	.454	.381	.269	.101

$\alpha = 40°$

TUBE NO	1	2	3	4	5	6	7
			WING STATIONS				
1	-3.194	-6.767	-8.616	-2.570	-1.447	-.528	-1.492
2	-4.262	-7.584	-8.699	-3.854	-2.778	-1.668	-1.253
3	-4.275	-7.375	-9.258	-4.055	-3.306	-1.846	-.850
4	-3.740	-5.798	-6.580	-3.702	-3.172	-2.318	-1.152
5	-3.015	-4.645	-4.917	-3.213	-2.891	-1.899	-.570
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.794	-2.520	-2.885	-2.220	-1.840	-1.050	-.407
11	-1.413	-1.630	*000.000	-1.597	-1.462	-.674	-.186
12	-1.445	-.949	-.948	-.838	-.893	-.533	-.271
13	-1.601	-.859	-.852	-.782	-.742	-.590	-.299
14	-2.360	-.814	-.808	-.712	-.735	-.517	-.298
15	-1.140	.243	.481	.451	.146	.146	-.176
16	-1.272	.170	.289	.503	.347	.379	-.171
17	-1.343	.060	.204	.495	.353	.306	-.065
18	-1.297	-.054	.052	.335	.274	.136	-.105
19	-1.638	-.371	-.358	-.080	-.193	-.122	-.170
20	-2.891	-1.050	-1.019	-.989	-.887	-.603	-.457
21	-3.672	-1.105	-1.116	-1.199	-1.076	-.556	-.432
22	-3.444	-.909	-.974	-1.145	-.991	-.564	-.422
23	-2.115	-.640	-.666	-.471	-.659	-.531	-.481
24	-.996	-.314	-.174	.077	-.306	-.321	-.365
25	-.617	-3.004	-4.588	.025	.760	.951	-.808
26	.950	.463	.036	1.353	*000.000	1.268	.050
27	.905	1.040	.997	1.181	1.063	.575	.311
28	.401	.902	1.010	.698	.616	.352	.300
29	-.054	.578	.763	.574	.487	.388	.333
30	.463	1.082	1.184	1.365	1.430	1.325	.636
31	.216	.850	.891	.912	.834	.737	.604
32	.098	.607	.685	.732	.638	.447	.419
33	-.013	.320	.455	.523	.349	.215	.046

$\alpha = 45°$

TUBE NO	1	2	3	4	5	6	7
			WING STATIONS				
1	-3.497	-5.789	-5.614	-3.091	-1.929	-.768	-1.191
2	-4.516	-6.341	-5.993	-4.441	-3.089	-1.776	-.923
3	-4.254	-5.538	-4.355	-4.475	-3.440	-1.941	-.698
4	-3.973	-4.868	-3.468	-4.277	-3.378	-2.088	-.489
5	-3.187	-3.253	-2.419	-3.634	-3.140	-1.892	-.514
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.773	-2.000	-2.200	-2.485	-1.884	-.761	-.219
11	-1.296	-1.463	*000.000	-1.794	-1.396	-.574	-.268
12	-1.894	-1.347	-.528	-.926	-.821	-.476	-.437
13	-1.428	-1.204	-1.086	-.870	-.661	-.423	-.533
14	-1.841	-1.094	-.852	-.724	-.686	-.349	-.509
15	-.830	.294	.453	.409	.117	.247	-.204
16	-1.016	.062	.284	.467	.314	.322	.038
17	-.917	-.038	.179	.326	.282	.276	.055
18	-.977	-.159	-.014	.265	.197	.169	-.231
19	-1.157	-.585	-.399	-.206	-.292	-.160	-.236
20	-1.850	-1.294	-.992	-.988	-.789	-.531	-.586
21	-2.486	-1.307	-1.146	-1.336	-.926	-.551	-.513
22	-2.151	-1.092	-1.035	-1.190	-.862	-.599	-.661
23	-1.173	-.916	-.736	-.549	-.552	-.538	-.517
24	-.876	-.521	-.231	-.107	-.345	-.391	-.461
25	-1.051	-2.833	-3.708	-.385	.492	.913	-.866
26	.951	.553	.198	1.285	*000.000	1.064	.040
27	.909	1.122	1.024	1.209	1.114	.574	.234
28	.408	.935	1.028	.670	.589	.365	.376
29	-.022	.514	.815	.559	.486	.403	.310
30	.528	1.145	1.194	1.373	1.422	1.212	.742
31	.298	.866	.902	.911	.816	.612	.431
32	.150	.619	.742	.682	.604	.384	.350
33	.044	.295	.469	.507	.339	.214	.010

$\alpha = 50°$

TUBE NO	1	2	3	4	5	6	7
			WING STATIONS				
1	-4.087	-6.321	-5.918	-3.708	-2.182	-.703	-.761
2	-4.944	-6.260	-4.820	-5.250	-3.689	-1.686	-.505
3	-4.948	-5.940	-4.726	-5.156	-4.073	-1.975	-.588
4	-3.720	-3.502	-2.515	-4.549	-3.639	-1.794	-.393
5	-2.742	-2.426	-2.515	-3.721	-3.058	-1.359	-.281
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.647	-2.006	-2.244	-2.647	-1.901	-.697	-.366
11	-1.139	-1.716	*000.000	-1.702	-1.212	-.418	-.290
12	-1.855	-1.294	-1.212	-.875	-.720	-.423	-.340
13	-1.471	-1.306	-1.198	-.860	-.599	-.343	-.433
14	-1.301	-1.016	-.838	-.703	-.517	-.306	-.407
15	-.649	.270	.443	.393	.148	.289	-.106
16	-.724	.108	.290	.463	.330	.329	.026
17	-.723	-.085	.192	.436	.421	.390	.011
18	-.828	-.193	.048	.248	.203	.214	-.067
19	-.880	-.621	-.416	-.206	-.222	-.139	-.238
20	-1.500	-1.303	-1.067	-1.026	-.775	-.570	-.610
21	-1.840	-1.225	-1.020	-1.105	-.821	-.491	-.480
22	-1.401	-1.021	-.984	-1.114	-.761	-.534	-.534
23	-.939	-.866	-.719	-.629	-.465	-.414	-.458
24	-.837	-.488	-.155	-.310	-.422	-.347	-.406
25	-1.505	-3.241	-3.903	-.818	.278	.197	-.836
26	.670	.370	.121	1.158	*000.000	.807	-.050
27	.726	1.109	1.082	1.216	1.210	.342	.242
28	.312	.908	1.039	.701	.596	.348	.307
29	.034	.557	.740	.533	.453	.368	.397
30	.533	1.135	1.049	1.323	1.357	1.188	.711
31	.257	.831	.811	.850	.741	.568	.453
32	.162	.584	.698	.683	.569	.422	.433
33	.112	.239	.420	.410	.310	.220	.042

$\alpha = 55°$

TUBE NO	1	2	3	4	5	6	7
			WING STATIONS				
1	-3.644	-5.314	-4.919	-4.364	-2.727	-1.059	-.673
2	-3.476	-4.470	-2.751	-5.218	-3.935	-1.858	-.580
3	-3.885	-3.787	-2.748	-5.321	-4.179	-1.794	-.484
4	-2.482	-1.667	-1.765	-4.913	-3.641	-1.617	-.331
5	-1.886	-1.276	-1.427	-3.995	-3.351	-1.323	-.321
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.253	-1.307	-1.440	-2.583	-1.816	-.519	-.269
11	-1.191	-1.438	*000.000	-1.767	-1.093	-.322	-.219
12	-1.456	-1.283	-1.318	-.988	-.663	-.422	-.408
13	-1.088	-1.164	-1.204	-.868	-.472	-.343	-.408
14	-1.190	-1.036	-1.254	-.881	-.532	-.399	-.406
15	-.498	.266	.420	.333	.108	.226	-.044
16	-.597	.062	.127	.381	.370	.317	-.016
17	-.578	-.033	.122	.397	.442	.301	-.002
18	-.618	-.148	-.065	.167	.252	.161	-.084
19	-.780	-.520	-.540	-.327	-.087	-.063	-.158
20	-1.281	-1.218	-1.219	-1.216	-.832	-.651	-.651
21	-1.339	-1.374	-1.256	-1.230	-.801	-.516	-.500
22	-1.116	-1.091	-1.226	-1.101	-.623	-.596	-.544
23	-.931	-.745	-.700	-.631	-.476	-.466	-.474
24	-.759	-.746	-.396	-.458	-.468	-.459	-.455
25	-1.515	-2.747	-2.832	-1.198	.048	.259	-1.051
26	.275	.472	.357	1.109	*000.000	.340	-.117
27	.165	.994	1.025	1.289	1.258	.292	.194
28	.134	.773	1.007	.719	.657	.331	.438
29	.002	.493	.763	.535	.464	.389	.458
30	.356	.995	.798	1.235	1.299	1.049	.643
31	.227	.875	.698	.877	.798	.571	.484
32	.068	.503	.504	.595	.558	.352	.347
33	.148	.214	.378	.374	.337	.237	.051

$\alpha = 60°$

TUBE NO	1	2	3	4	5	6	7
			WING STATIONS				
1	-3.521	-4.289	-4.105	-4.078	-2.743	-1.544	-.587
2	-3.387	-3.405	-1.865	-5.461	-3.850	-1.669	-.356
3	-2.817	-2.196	-1.544	-5.636	-4.486	-1.724	-.369
4	-2.237	-1.553	-1.236	-5.204	-4.119	-1.310	-.381
5	-1.493	-1.204	-1.000	-4.084	-3.325	-1.337	-.348
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.268	-1.205	-1.180	-2.666	-1.911	-.443	-.302
11	-1.344	-1.344	*000.000	-1.694	-1.061	-.326	-.314
12	-1.136	-1.179	-1.093	-.899	-.738	-.322	-.280
13	-.947	-.952	-1.083	-.882	-.592	-.431	-.459
14	-.984	-1.014	-1.025	-.849	-.572	-.439	-.509
15	-.486	.270	.398	.286	.075	.273	-.282
16	-.457	.149	.284	.429	.308	.264	-.111
17	-.447	-.005	.042	.320	.242	.229	-.091
18	-.481	-.131	-.081	.124	.093	.046	-.201
19	-.570	-.426	-.394	-.340	-.259	-.206	-.255
20	-1.020	-1.000	-1.035	-1.156	-.781	-.621	-.623
21	-1.049	-1.137	-.880	-1.163	-.697	-.450	-.461
22	-.992	-1.002	-.983	-1.093	-.745	-.615	-.705
23	-.815	-.861	-.757	-.753	-.643	-.639	-.824
24	-.746	-.677	-.512	-.385	-.450	-.452	-.444
25	-2.665	-2.649	-2.861	-1.807	-.153	-.897	-.948
26	-.355	.339	.388	.875	*000.000	.059	-.279
27	.021	.848	1.103	1.224	1.280	.308	.020
28	.148	.584	1.049	.801	.639	.399	.371
29	-.030	.356	.630	.457	.395	.385	.325
30	.291	.940	.595	1.174	1.273	.952	.579
31	.101	.694	.509	.762	.604	.459	.456
32	.098	.439	.455	.540	.465	.359	.334
33	.086	.145	.286	.324	.264	.260	.084

Table 16. - Continued.

(d) $C_{T,S} = 0.30$, $q_s = 18.89$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.846	.761	.425	.583	1.051	.990	.674
2	.280	-.121	-.342	.076	.551	.418	.120
3	.098	-.330	-.669	.108	.218	.161	-.072
4	-.309	-.756	-.973	-.521	-.373	-.456	-.537
5	-.720	-1.128	-1.224	-.763	-.707	-.759	-.804
6	000.000	000.000	000.000	000.000	000.000	000.000	000.000
7	000.000	000.000	000.000	000.000	000.000	000.000	000.000
8	000.000	000.000	000.000	000.000	000.000	000.000	000.000
9	000.000	000.000	000.000	000.000	000.000	000.000	000.000
10	-.903	-1.146	-1.452	-1.048	-.900	-.800	-.718
11	-.498	-1.266	000.000	-1.147	-1.310	-1.167	-1.057
12	-1.268	-.787	-.776	-.589	-.899	-.771	-.614
13	-.502	-.886	-.614	-.569	-.704	-.640	-.424
14	-.547	-.805	-.549	-.527	-.647	-.535	-.425
15	-.286	.618	-.037	.115	-.023	-.038	-.470
16	.030	.027	.121	.120	.172	.060	-.200
17	.140	.049	.176	.062	.236	.136	-.064
18	.094	0.	.113	.023	.147	.029	-.121
19	-.105	-.197	-.177	-.109	-.161	-.165	-.205
20	-.724	-.755	-.659	-.548	-.746	-.682	-.601
21	-1.158	-1.096	-.945	-.890	-1.068	-.919	-.634
22	-1.163	-1.002	-.809	-.841	-.995	-.913	-.630
23	-.479	-.405	-.289	-.150	-.354	-.402	-.398
24	-.621	.043	.068	.093	.052	-.041	-.251
25	.901	1.050	.638	-.052	.862	.895	.873
26	.288	.498	.444	.086	000.000	.277	.327
27	-.169	.022	-.134	-.308	-.368	-.279	-.100
28	-.096	-.006	-.033	-.107	-.193	-.123	-.046
29	-.040	.147	.217	.209	.161	.118	.080
30	.867	.981	.996	.554	1.127	1.081	.837
31	.399	.569	.520	.348	.590	.522	.228
32	.195	.387	.402	.293	.438	.358	.247
33	-.018	.322	.333	.242	.279	.233	-.340

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.441	-.097	-.556	-.105	.708	.658	.405
2	-.322	-.938	-1.217	-.707	-.210	-.379	-.538
3	-.582	-1.292	-1.703	-.954	-.692	-.698	-.909
4	-.758	-1.634	-1.759	-1.288	-1.030	-1.160	-1.241
5	-1.111	-1.771	-1.942	-1.563	-1.433	-1.461	-1.428
6	000.000	000.000	000.000	000.000	000.000	000.000	000.000
7	000.000	000.000	000.000	000.000	000.000	000.000	000.000
8	000.000	000.000	000.000	000.000	000.000	000.000	000.000
9	000.000	000.000	000.000	000.000	000.000	000.000	000.000
10	-1.109	-1.545	-1.872	-1.573	-1.453	-1.218	-1.127
11	-1.000	-1.421	000.000	-1.411	-1.527	-1.360	-1.253
12	-1.463	-.926	-.887	-.695	-1.031	-.900	-.669
13	-.744	-.847	-.744	-.667	-.843	-.721	-.463
14	-.734	-.665	-.582	-.608	-.647	-.564	-.408
15	-.283	.572	.060	.224	.054	.003	-.592
16	-.196	.066	.100	.248	.175	.123	-.189
17	-.242	.059	.118	.258	.234	.242	-.078
18	-.230	.005	.063	.102	.131	.106	-.028
19	-.363	-.291	-.283	-.112	-.232	-.159	-.244
20	-1.040	-.883	-.751	-.712	-.860	-.783	-.691
21	-1.521	-1.189	-.936	-1.031	-1.168	-.970	-.679
22	-1.819	-1.179	-.919	-1.112	-1.129	-1.037	-.718
23	-1.860	-.646	-.454	-.429	-.490	-.553	-.638
24	-.855	.023	.069	.016	.085	-.001	-.227
25	1.092	1.089	.467	.564	1.324	1.289	1.144
26	.672	.928	.667	.547	000.000	.849	.822
27	.112	.366	.263	.506	.143	.253	.314
28	-.042	.150	.185	.072	.032	.065	.111
29	-.052	.209	.251	.236	.268	.283	.257
30	.761	.916	.898	.814	1.125	1.068	1.045
31	.318	.578	.528	.453	.666	.619	.508
32	.139	.412	.466	.417	.516	.456	.405
33	-.068	.293	.344	.301	.348	.320	-.260

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.166	-1.134	-1.768	-.910	-.039	-.243	-.580
2	-1.103	-2.315	-2.883	-2.172	-1.387	-1.566	-1.723
3	-1.377	-2.562	-3.269	-2.364	-1.893	-1.911	-2.084
4	-1.575	-2.591	-2.857	-2.204	-2.047	-2.170	-2.215
5	-1.653	-2.580	-2.854	-2.354	-2.449	-2.443	-2.418
6	000.000	000.000	000.000	000.000	000.000	000.000	000.000
7	000.000	000.000	000.000	000.000	000.000	000.000	000.000
8	000.000	000.000	000.000	000.000	000.000	000.000	000.000
9	000.000	000.000	000.000	000.000	000.000	000.000	000.000
10	-1.308	-1.890	-2.254	-1.938	-1.880	-1.639	-1.508
11	-1.035	-1.494	000.000	-1.440	-1.699	-1.525	-1.380
12	-1.537	-.984	-.972	-.773	-1.166	-1.021	-.800
13	-.816	-.804	-.706	-.612	-.868	-.763	-.554
14	-1.084	-.814	-.716	-.704	-.813	-.710	-.588
15	-.346	.470	.171	.268	.120	.114	-.521
16	-.424	.103	.144	.410	.257	.218	-.229
17	-.442	.030	.096	.382	.240	.213	-.116
18	-.429	0.	.040	.275	.158	.100	-.146
19	-.598	-.309	-.317	.009	-.258	-.213	-.293
20	-1.266	-.887	-.811	-.715	-.901	-.849	-.668
21	-1.913	-1.166	-.958	-1.016	-1.230	-1.040	-.728
22	-2.500	-1.255	-.949	-1.106	-1.195	-1.130	-.819
23	-2.200	-.585	-.395	-.373	-.421	-.521	-.659
24	-.952	.002	-.010	.081	.109	-.041	-.290
25	.916	.612	-.123	.105	1.206	1.058	.710
26	.924	1.027	.642	.727	000.000	1.151	1.030
27	.432	.722	.553	.727	.508	.555	.571
28	.158	.375	.390	.471	.248	.304	.318
29	.023	.328	.354	.365	.360	.378	.358
30	.615	.901	.821	1.175	1.141	1.084	1.094
31	.295	.623	.476	.736	.716	.690	.604
32	.140	.460	.447	.592	.593	.479	.506
33	-.016	.330	.330	.442	.440	.326	-.200

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.035	-2.666	-3.672	-2.514	-1.401	-1.558	-1.940
2	-2.019	-3.776	-4.383	-3.544	-2.600	-2.702	-2.872
3	-2.155	-3.940	-5.087	-3.516	-3.038	-2.961	-3.048
4	-2.332	-3.746	-4.137	-3.528	-3.022	-3.026	-3.119
5	-2.165	-3.420	-3.898	-3.294	-3.357	-3.288	-3.151
6	000.000	000.000	000.000	000.000	000.000	000.000	000.000
7	000.000	000.000	000.000	000.000	000.000	000.000	000.000
8	000.000	000.000	000.000	000.000	000.000	000.000	000.000
9	000.000	000.000	000.000	000.000	000.000	000.000	000.000
10	-1.467	-2.135	-2.502	-2.189	-2.218	-1.981	-1.771
11	-1.205	-1.675	000.000	-1.657	-2.010	-1.791	-1.576
12	-1.613	-1.014	-.968	-.801	-1.204	-1.029	-.718
13	-.989	-.860	-.740	-.672	-.898	-.739	-.554
14	-1.369	-.856	-.724	-.680	-.849	-.727	-.681
15	-.570	.353	.345	.384	.186	.162	-.487
16	-.807	.102	.208	.485	.257	.229	-.245
17	-.786	.007	.173	.467	.288	.249	-.252
18	-.727	-.018	.087	.361	.185	.100	-.211
19	-.979	-.371	-.336	-.048	-.306	-.277	-.424
20	-1.629	-.945	-.810	-.796	-.924	-.889	-.660
21	-2.485	-1.274	-.958	-1.077	-1.251	-1.077	-.725
22	-3.008	-1.248	-.857	-1.086	-1.153	-1.059	-.730
23	-2.546	-.599	-.364	-.401	-.418	-.529	-.604
24	-1.165	-.025	.007	.078	.106	-.042	-.320
25	.579	-.337	-1.552	-.207	.897	.742	.372
26	1.005	.991	.614	.880	000.000	1.246	1.024
27	.605	.900	.803	.887	.886	.840	.760
28	.313	.605	.704	.579	.567	.532	.514
29	.088	.458	.560	.502	.487	.479	.471
30	.574	.973	.976	1.356	1.307	1.204	1.089
31	.268	.635	.637	.806	.749	.685	.626
32	.182	.529	.587	.660	.653	.549	.600
33	.048	.384	.467	.510	.466	.379	-.089

Table 16. - Concluded.

(d) $C_{T,S} = 0.30$, $q_S = 18.89$

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.007	-4.210	-5.229	-3.118	-1.982	-1.894	-2.463
2	-3.169	-5.574	-6.462	-5.220	-4.218	-4.123	-4.329
3	-3.131	-5.443	-7.269	-4.956	-4.340	-4.077	-4.105
4	-2.880	-4.658	-5.246	-4.342	-4.081	-3.875	-3.781
5	-2.604	-4.007	-4.564	-3.960	-4.020	-3.869	-3.580
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.800	-2.647	-3.077	-2.761	-2.698	-2.307	-1.859
11	-1.359	-1.832	*000.000	-1.858	-2.235	-1.905	-1.441
12	-1.767	-1.138	-1.048	-.897	-1.120	-.847	-.667
13	-1.191	-.849	-.713	-.687	-.786	-.738	-.731
14	-1.945	-.970	-.826	-.812	-.899	-.864	-.893
15	-.902	.294	.405	.439	.227	.208	-.376
16	-1.198	.085	.264	.461	.291	.167	-.425
17	-1.116	.012	.187	.443	.234	.153	-.301
18	-1.222	-.074	.097	.363	.158	-.103	-.570
19	-1.282	-.376	-.298	-.106	-.310	-.377	-.387
20	-2.190	-.997	-.853	-.927	-1.002	-1.176	-.785
21	-3.155	-1.371	-.993	-1.183	-1.302	-1.150	-.803
22	-3.582	-1.355	-.855	-1.107	-1.051	-.839	-.749
23	-2.646	-.669	-.388	-.381	-.373	-.478	-.499
24	-1.782	-.130	-.016	.083	.035	-.170	-.409
25	-.140	-1.581	-2.852	-.940	.168	-.007	-.690
26	.793	.700	.444	1.020	*000.000	1.178	.635
27	.696	.919	.938	.995	1.092	.996	.714
28	.356	.687	.809	.708	.681	.649	.556
29	.088	.543	.693	.587	.593	.577	.542
30	.405	.987	.990	1.368	1.326	1.249	1.035
31	.240	.712	.715	.873	.827	.770	.709
32	.098	.533	.611	.667	.652	.580	.584
33	-.021	.308	.433	.439	.366	.273	-.165

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.034	-5.439	-7.457	-4.420	-3.424	-2.757	-3.488
2	-3.647	-6.615	-7.388	-5.727	-4.726	-4.114	-3.883
3	-3.696	-6.230	-7.923	-5.428	-4.824	-4.010	-3.955
4	-3.485	-5.606	-6.409	-5.251	-4.880	-4.440	-4.091
5	-2.960	-4.614	-5.248	-4.483	-4.286	-3.523	-2.280
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.929	-2.775	-3.191	-2.884	-2.715	-2.219	-1.580
11	-1.350	-1.732	*000.000	-1.799	-1.852	-1.209	-.981
12	-1.874	-1.137	-1.149	-.887	-1.078	-.975	-.861
13	-1.695	-.955	-.872	-.813	-.934	-.862	-.658
14	-2.029	-.862	-.741	-.740	-.937	-.667	-.754
15	-1.125	.283	.500	.469	.262	.248	-.470
16	-1.340	.196	.321	.498	.269	.218	-.476
17	-1.345	.068	.223	.460	.229	.221	-.330
18	-1.333	.002	.124	.331	.141	.195	-.205
19	-1.682	-.380	-.309	-.140	-.494	-.217	-.500
20	-2.892	-1.014	-.972	-1.094	-1.173	-.965	-1.012
21	-3.497	-1.242	-.982	-1.081	-1.221	-.714	-.772
22	-3.493	-1.102	-.895	-1.010	-1.110	-.798	-.926
23	-2.702	-.545	-.471	-.389	-.578	-.553	-.619
24	-1.721	-.134	-.051	-.007	-.376	-.513	-.583
25	-.908	-2.683	-3.904	-1.011	-.210	-.066	-1.601
26	.805	.443	.167	1.225	*000.000	1.289	.361
27	.497	1.077	1.025	1.369	1.380	1.203	.642
28	.485	.435	.421	.814	.825	.733	.553
29	.034	.572	.596	.596	.602	.583	.520
30	.380	1.032	1.107	1.350	1.326	1.247	.965
31	.262	.841	.832	.988	.902	.845	.698
32	.145	.658	.669	.783	.733	.575	.589
33	.080	.395	.504	.546	.468	.347	-.004

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.523	-3.629	-3.231	-4.566	-3.941	-3.422	-3.932
2	-3.390	-4.279	-2.904	-5.604	-5.090	-4.477	-3.733
3	-3.288	-3.880	-2.658	-5.576	-5.454	-4.714	-3.760
4	-2.703	-2.184	-1.469	-4.699	-4.800	-4.297	-3.197
5	-2.020	-1.226	-1.084	-3.907	-4.364	-3.741	-2.205
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.003	-.417	-.443	-2.225	-2.417	-1.739	-.888
11	-.785	-.894	*000.000	-1.306	-1.886	-1.360	-.946
12	-.833	-.839	-.918	-.883	-.998	-1.033	-.899
13	-.970	-.851	-.846	-.797	-.776	-.731	-.766
14	-1.113	-.888	-.803	-.822	-.856	-.829	-.887
15	-.302	.295	.454	.461	.324	.315	-.348
16	-.486	.030	.198	.344	.199	.220	-.316
17	-.429	-.002	.155	.320	.296	.337	-.270
18	-.505	-.141	-.012	.177	.105	.030	-.428
19	-.610	-.420	-.347	-.429	-.282	-.258	-.427
20	-1.243	-1.338	-1.268	-1.227	-1.205	-.999	-.837
21	-1.539	-1.217	-1.055	-.982	-1.108	-1.016	-.963
22	-1.337	-1.033	-1.102	-1.080	-1.118	-.956	-.764
23	-1.002	-.679	-.731	-.692	-.767	-.560	-.631
24	-.692	-.601	-.507	-.649	-.433	-.701	-.688
25	-.595	-1.444	-1.490	-.921	-.348	-.266	-1.827
26	.744	.607	.584	1.171	*000.000	1.199	.187
27	.929	1.061	1.128	1.439	1.458	1.287	.711
28	.471	.782	.887	.858	.894	.789	.660
29	.119	.568	.700	.592	.617	.578	.545
30	.525	.936	1.020	1.300	1.309	1.189	1.143
31	.334	.717	.773	.869	.854	.780	.617
32	.223	.506	.575	.630	.649	.512	.521
33	.145	.238	.306	.370	.405	.283	-.116

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.179	-4.234	-3.202	-4.688	-4.081	-3.082	-3.170
2	-3.832	-4.045	-2.253	-5.997	-5.262	-3.947	-2.350
3	-3.739	-3.999	-1.762	-6.198	-5.628	-3.882	-1.674
4	-3.351	-2.316	-1.207	-5.534	-5.081	-3.766	-1.330
5	-2.315	-1.232	-1.235	-4.691	-4.450	-2.986	-.788
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.943	-.943	-.965	-2.385	-2.325	-1.248	-.561
11	-1.161	-1.266	*000.000	-1.448	-1.448	-.972	-.737
12	-1.050	-1.174	-1.177	-.760	-1.036	-.723	-.695
13	-.943	-1.194	-1.094	-.771	-.875	-.542	-.623
14	-.805	-1.087	-.927	-.882	-.727	-.592	-.621
15	-.312	.244	.451	.394	.218	.268	-.296
16	-.470	.111	.281	.415	.208	.339	-.177
17	-.451	-.056	.118	.269	.202	.259	-.257
18	-.447	-.238	-.061	.219	.116	.070	-.309
19	-.658	-.608	-.597	-.369	-.423	-.336	-.639
20	-1.165	-1.420	-1.174	-1.060	-.987	-.812	-.828
21	-1.016	-1.096	-.924	-1.064	-1.078	-.821	-.876
22	-.956	-.934	-1.002	-1.290	-.947	-.751	-.770
23	-.877	-.843	-.780	-.888	-.915	-.852	-.913
24	-.843	-.718	-.602	-.558	-.596	-.648	-.683
25	-1.536	-2.599	-2.382	-1.792	-.952	-.265	-1.931
26	.819	.373	.417	1.047	*000.000	1.169	.056
27	.835	.928	1.048	1.306	1.320	1.131	.585
28	.518	.839	.972	.868	.887	.750	.606
29	.178	.596	.772	.631	.599	.553	.501
30	.480	.935	1.049	1.269	1.254	1.125	.908
31	.357	.813	.820	.892	.857	.749	.640
32	.242	.541	.659	.666	.621	.497	.418
33	.124	.260	.342	.445	.389	.291	-.113

Table 17.- Pressure coefficients for wing with propeller rotation up at tip, basic leading edge, $\delta_f = 40°$.

(a) $C_{T,S} = 0.90$, $q_s = 20.21$

$\alpha = 5°$

TUHF NO	WING STATIONS 1	2	3	4	5	6	7
1	.919	.772	.444	.002	.969	1.048	.088
2	.260	-.025	-.207	.790	1.203	1.104	-.048
3	-.047	-.317	-.594	1.011	1.099	1.005	-.071
4	-.462	-.663	-.704	.981	.813	.588	-.054
5	-.528	-.966	-1.100	.647	.422	.154	-.257
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.407	-.867	-1.126	-.044	-.143	-.132	-.284
11	-.375	-.931	.000.000	-.406	-.677	-.483	-.342
12	-1.044	-.594	-.702	-.187	-.555	-.327	-.211
13	-.421	-.546	-.668	-.412	-.527	-.359	-.215
14	-.477	-.596	-.888	-.590	-.559	-.373	-.239
15	.082	-1.455	.736	.347	.338	.248	.048
16	.182	.124	.119	.209	.119	.050	-.026
17	-.376	-.644	-.542	-.193	-.456	-.219	-.177
18	-.794	-1.197	-1.432	-.734	-.980	-.922	-.438
19	-1.034	-1.589	-1.842	-1.144	-1.450	-1.216	-.743
20	-1.113	-1.640	-1.900	-1.411	-1.394	-1.430	-.855
21	-1.145	-1.691	-1.939	-1.125	-1.328	-1.215	-.758
22	-1.100	-1.112	-1.201	-.666	-.534	-.870	-.608
23	-1.015	-.450	-.161	-.180	-.109	-.179	-.355
24	-.451	-.014	.053	-.114	-.119	-.115	-.181
25	1.092	1.184	.972	-1.655	-.098	.073	.042
26	.957	.982	.945	-1.083	.000.000	-.624	.197
27	.062	.396	.530	-.654	-.860	-.732	-.024
28	-.002	.253	.345	.008	-.314	-.192	-.009
29	.117	.416	.430	.369	.253	.214	.102
30	.887	1.145	.923	.388	.536	.417	.090
31	.949	1.145	1.029	.514	1.118	.873	.378
32	.814	.823	.749	.500	.740	.705	.278
33	.314	.800	.602	.400	.474	.473	.165

$\alpha = 10°$

TUHF NO	WING STATIONS 1	2	3	4	5	6	7
1	.787	.446	-.072	.124	1.066	1.149	-.150
2	.008	-.378	-.597	.752	1.176	1.053	-.307
3	-.173	-.671	-.998	.869	1.020	.858	-.154
4	-.517	-1.006	-1.139	.710	.724	.497	-.348
5	-.673	-1.193	-1.326	.458	.220	.026	-.308
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.498	-1.007	-1.269	-.251	-.307	-.187	-.302
11	-.435	-.941	.000.000	-.490	-.690	-.533	-.425
12	-1.144	-.644	-.747	-.344	-.626	-.394	-.315
13	-.390	-.640	-.735	-.455	-.556	-.385	-.267
14	-.517	-.628	-.719	-.506	-.541	-.386	-.248
15	.104	-1.586	.249	.404	.342	.443	-.023
16	.108	.082	.115	.068	.183	.095	.039
17	-.455	-.715	-.644	-.296	-.515	-.248	-.264
18	-.903	-1.246	-1.330	-.834	-1.028	-.938	-.501
19	-1.269	-1.718	-1.945	-1.421	-1.545	-1.299	-.827
20	-1.402	-1.796	-1.874	-1.446	-1.640	-1.483	-1.063
21	-1.427	-1.520	-1.578	-1.130	-1.274	-1.188	-.814
22	-1.351	-1.141	-1.132	-.700	-.616	-.958	-.785
23	-1.140	-.415	-.128	-.240	-.144	-.186	-.602
24	-.447	.002	-.022	-.221	-.137	-.134	-.271
25	1.165	1.184	.742	-1.045	.227	.132	-.101
26	.791	1.062	.479	-.766	.000.000	-.505	.108
27	.168	.556	.686	-.488	-.681	-.644	-.096
28	.046	.326	.432	-.028	-.142	-.129	-.040
29	.116	.469	.430	.355	.311	.220	.043
30	.791	1.046	.845	.302	.637	.549	.140
31	.916	1.070	.971	.471	1.143	1.061	.318
32	.681	.749	.808	.484	.749	.791	.574
33	.350	.618	.687	.412	.530	.491	.114

$\alpha = 15°$

TUHF NO	WING STATIONS 1	2	3	4	5	6	7
1	.641	.151	-.487	.389	1.140	1.178	-.102
2	-.224	-.831	-1.270	.867	1.174	.998	-.304
3	-.394	-1.003	-1.578	.838	.939	.764	-.287
4	-.737	-1.277	-1.453	.705	.564	.311	-.433
5	-.732	-1.402	-1.593	.299	.041	-.141	-.473
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.575	-1.133	-1.477	-.179	-.414	-.314	-.354
11	-.442	-1.024	.000.000	-.467	-.752	-.560	-.380
12	-1.237	-.640	-.831	-.332	-.657	-.443	-.248
13	-.476	-.695	-.753	-.430	-.599	-.439	-.214
14	-.623	-.726	-.750	-.503	-.666	-.432	-.217
15	.013	-1.705	.278	.442	.357	.481	.069
16	.018	.089	.078	.248	.170	.203	-.018
17	-.626	-.816	-.694	-.197	-.589	-.321	-.183
18	-1.110	-1.396	-1.479	-.776	-1.206	-1.133	-.577
19	-1.501	-1.740	-1.866	-1.283	-1.685	-1.296	-.750
20	-1.643	-1.808	-1.836	-1.326	-1.644	-1.539	-.956
21	-1.931	-1.810	-1.773	-1.180	-1.495	-1.439	-.849
22	-1.686	-1.243	-1.098	-.698	-.753	-.989	-.815
23	-1.242	-.408	-.264	-.157	-.139	-.255	-.577
24	-.491	-.107	-.128	-.086	-.109	-.055	-.240
25	1.180	1.075	.453	-.492	.478	.357	.041
26	.944	1.141	.960	-.371	.000.000	-.306	.043
27	.239	.475	.773	-.197	-.544	-.589	.041
28	.102	.420	.523	-.115	-.137	-.168	-.059
29	.044	.447	.448	.453	.318	.230	.158
30	.777	1.128	.956	.429	.706	.620	.173
31	.997	1.099	1.028	.542	1.236	1.208	.354
32	.554	.841	.782	.565	.823	.812	.692
33	.344	.619	.635	.490	.544	.510	.099

$\alpha = 20°$

TUHF NO	WING STATIONS 1	2	3	4	5	6	7
1	.460	-.222	-1.102	.448	1.205	1.205	-.278
2	-.397	-1.175	-1.693	.713	.950	.840	-.416
3	-.434	-1.441	-2.124	.606	.738	.620	-.394
4	-.861	-1.590	-1.722	.395	.394	.189	-.428
5	-.926	-1.643	-1.795	.186	-.110	-.314	-.736
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.623	-1.178	-1.493	-.323	-.499	-.345	-.313
11	-.526	-1.041	.000.000	-.563	-.808	-.592	-.383
12	-1.205	-.746	-.744	-.334	-.662	-.414	-.199
13	-.582	-.703	-.753	-.501	-.565	-.414	-.221
14	-.730	-.721	-.743	-.601	-.634	-.422	-.198
15	-.105	-1.728	.288	.470	.369	.416	.061
16	-.169	.060	.040	.140	.138	.175	-.015
17	-.741	-.819	-.610	-.330	-.542	-.262	-.231
18	-1.352	-1.345	-1.277	-.829	-1.107	-1.024	-.529
19	-1.823	-1.860	-1.886	-1.424	-1.693	-1.455	-.807
20	-2.128	-1.939	-1.803	-1.467	-1.706	-1.587	-1.061
21	-2.344	-1.855	-1.694	-1.171	-1.544	-1.367	-.755
22	-2.121	-1.337	-1.127	-.709	-.854	-1.096	-.791
23	-1.371	-.386	-.244	-.152	-.111	-.331	-.664
24	-.594	-.143	-.088	-.053	-.070	-.044	-.249
25	1.245	.985	.191	-.323	.766	.621	.050
26	.980	1.119	.933	-.214	.000.000	-.174	.184
27	.358	.767	.815	-.117	-.391	-.473	.004
28	.120	.662	.585	.129	-.041	-.176	-.052
29	.103	.473	.518	.395	.383	.297	.130
30	.891	1.037	.928	.625	.863	.746	.166
31	.921	1.040	1.031	.568	1.185	1.270	.523
32	.554	.775	.816	.660	.845	.799	.664
33	.317	.525	.625	.529	.528	.501	.060

$\alpha = 25°$

TUHF NO	WING STATIONS 1	2	3	4	5	6	7
1	-.998	-1.186	-2.479	.499	1.140	1.214	-.488
2	-1.040	-2.196	-2.970	.538	.757	.695	-.530
3	-1.243	-2.335	-3.442	.479	.458	.346	-.673
4	-1.388	-2.217	-2.662	.236	.041	-.124	-.668
5	-1.290	-2.082	-2.346	-.056	-.377	-.470	-.553
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.845	-1.461	-1.759	-.441	-.710	-.472	-.375
11	-.720	-1.292	.000.000	-.636	-.905	-.670	-.381
12	-1.293	-.850	-.849	-.445	-.725	-.441	-.283
13	-1.026	-.886	-.828	-.543	-.695	-.465	-.234
14	-1.265	-.887	-.777	-.582	-.693	-.465	-.300
15	-.421	-1.760	.345	.413	.279	.464	.142
16	-.553	-.042	.051	.141	.110	.153	.048
17	-1.257	-.922	-.598	-.302	-.647	-.313	-.246
18	-2.042	-1.597	-1.406	-.934	-1.285	-1.070	-.548
19	-2.785	-2.071	-1.872	-1.468	-1.892	-1.474	-.700
20	-3.266	-2.377	-1.978	-1.639	-1.973	-1.699	-.901
21	-3.179	-2.093	-1.578	-1.271	-1.620	-1.316	-.780
22	-2.625	-1.466	-1.124	-.886	-.924	-.942	-.675
23	-1.663	-.459	-.332	-.194	-.191	-.392	-.665
24	-.943	-.120	-.090	-.061	-.084	-.061	-.108
25	1.024	.521	.235	.238	1.069	.848	-.203
26	1.046	1.079	.781	.217	.000.000	.194	.186
27	.471	.912	.938	.072	-.157	-.323	-.091
28	.171	.564	.696	.191	-.004	-.100	-.013
29	.020	.491	.571	.431	.365	.290	.144
30	.522	1.013	.931	.519	.882	.791	.400
31	.656	1.000	1.013	.823	1.176	1.314	.613
32	.393	.764	.876	.879	.861	.822	.848
33	.194	.514	.676	.545	.551	.498	.030

$\alpha = 30°$

TUHF NO	WING STATIONS 1	2	3	4	5	6	7
1	.264	-.665	-1.773	.620	1.197	1.180	-.256
2	-.741	-1.649	-2.362	.627	.913	.801	-.450
3	-.943	-1.937	-2.888	.574	.648	.502	-.481
4	-1.103	-1.901	-2.216	.393	.249	.072	-.595
5	-1.110	-1.914	-2.147	.092	-.175	-.320	-.494
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.771	-1.331	-1.743	-.395	-.607	-.401	-.336
11	-.615	-1.126	.000.000	-.597	-.843	-.574	-.340
12	-1.226	-.766	-.827	-.428	-.669	-.405	-.201
13	-.772	-.781	-.789	-.461	-.610	-.427	-.156
14	-.957	-.772	-.770	-.544	-.652	-.424	-.172
15	-.224	-1.789	.271	.407	.397	.449	.174
16	-.380	.009	.041	.226	.131	.191	.047
17	-.988	-.840	-.707	-.285	-.624	-.307	-.134
18	-1.668	-1.386	-1.317	-.765	-1.181	-.997	-.448
19	-2.189	-1.843	-1.849	-1.318	-1.677	-1.337	-.628
20	-2.620	-1.998	-1.870	-1.503	-1.736	-1.632	-.901
21	-2.489	-1.670	-1.531	-1.097	-1.424	-1.226	-.749
22	-2.406	-1.396	-1.209	-.756	-.895	-1.040	-.721
23	-1.543	-.373	-.294	-.153	-.095	-.295	-.571
24	-.731	-.238	-.169	-.071	-.104	-.017	-.042
25	1.042	.697	.264	-.040	.880	.712	-.060
26	1.036	1.081	.792	-.005	.000.000	.046	.265
27	.405	.808	.849	-.024	-.254	-.375	.054
28	.142	.689	.600	.208	-.049	-.128	-.003
29	.044	.490	.510	.452	.369	.288	.151
30	.597	1.006	.928	.524	.864	.763	.279
31	.706	1.007	.948	.678	1.145	1.185	.545
32	.448	.763	.799	.771	.850	.810	.767
33	.265	.510	.637	.566	.547	.504	.190

Table 17. - Continued.

(a) $C_{T,S} = 0.90$, $q_s = 20.21$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.338	-1.369	-2.940	.646	1.043	1.002	-.606
2	-1.295	-2.397	-3.269	.465	.528	.486	-.822
3	-1.441	-2.590	-3.906	.326	.201	.135	-.719
4	-1.614	-2.602	-3.087	-.037	-.190	-.320	-.677
5	-1.489	-2.362	-2.693	-.178	-.591	-.656	-.594
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.927	-1.547	-1.848	-.499	-.798	-.548	-.369
11	-.816	-1.243	*000.000	-.707	-.956	-.690	-.381
12	-1.240	-.885	-.802	-.476	-.715	-.435	-.265
13	-1.084	-.843	-.764	-.551	-.639	-.414	-.195
14	-1.333	-.850	-.695	-.598	-.661	-.413	-.256
15	-.563	-1.785	.348	.409	.363	.429	.043
16	-.698	-.082	.044	.185	.123	.138	-.023
17	-1.468	-1.039	-.733	-.433	-.710	-.225	-.215
18	-2.198	-1.592	-1.387	-1.033	-1.343	-1.037	-.486
19	-3.062	-2.239	-1.792	-1.654	-1.869	-1.083	-.538
20	-3.525	-2.343	-1.619	-1.816	-1.786	-.985	-.503
21	-3.363	-2.129	-1.411	-1.470	-1.661	-1.184	-.624
22	-2.919	-1.688	-1.020	-1.133	-1.053	-.912	-.515
23	-1.542	-.586	-.308	-.199	-.180	-.415	-.527
24	-.957	-.181	-.017	-.138	-.192	-.116	-.133
25	.912	.224	-1.059	.452	1.231	.840	.442
26	1.046	1.014	.707	.452	*000.000	.252	.102
27	.573	.927	.943	.204	-.011	-.332	-.066
28	.185	.547	.670	.203	.065	-.130	-.030
29	-.002	.470	.555	.442	.406	.252	.054
30	.492	.960	.923	.794	.921	.750	.186
31	.618	.978	.972	.975	1.170	1.255	.449
32	.386	.746	.821	.815	.862	.811	.724
33	.198	.524	.666	.577	.618	.470	.107

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.669	-1.935	-3.562	.773	1.040	.999	-.517
2	-1.753	-2.854	-3.891	.738	.435	.432	-.579
3	-1.926	-3.045	-4.439	.300	.020	.115	-.789
4	-2.090	-3.105	-3.731	.003	-.387	-.436	-.777
5	-1.705	-2.497	-2.843	-.282	-.763	-.654	-.550
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.078	-1.677	-1.893	-.658	-.924	-.536	-.357
11	-.905	-1.283	*000.000	-.755	-.983	-.604	-.209
12	-1.249	-.942	-.823	-.516	-.770	-.462	-.220
13	-1.275	-.908	-.725	-.538	-.695	-.482	-.237
14	-1.666	-.961	-.808	-.662	-.679	-.438	-.237
15	-.730	-1.692	.367	.390	.332	.359	-.048
16	-.845	-.119	.079	.216	.105	.176	.009
17	-1.565	-.984	-.656	-.252	-.692	-.207	-.190
18	-2.462	-1.719	-1.320	-1.060	-1.372	-.854	-.536
19	-3.337	-2.309	-1.682	-1.678	-1.747	-1.030	-.551
20	-3.478	-2.340	-1.430	-1.777	-1.774	-1.009	-.700
21	-3.513	-2.288	-1.263	-1.611	-1.646	-1.011	-.643
22	-2.868	-1.720	-.897	-.963	-1.000	-.715	-.468
23	-1.511	-.643	-.324	-.183	-.241	-.464	-.404
24	-.998	-.201	-.034	-.186	-.137	-.159	-.228
25	.731	.045	-1.318	.707	1.343	.804	-.338
26	1.104	.995	.678	.589	*000.000	.262	.081
27	.610	.920	.918	.284	.061	-.311	-.094
28	.213	.591	.715	.218	.066	-.161	-.014
29	-.066	.470	.615	.490	.381	.227	.135
30	.366	.902	.952	.822	.934	.742	.183
31	.488	.939	1.003	1.059	1.141	1.198	.337
32	.305	.708	.787	.857	.844	.703	.654
33	.185	.486	.661	.592	.558	.338	-.029

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.255	-2.136	-3.767	.678	1.002	1.100	-.666
2	-2.233	-3.163	-4.192	.169	.230	.287	-.972
3	-2.417	-3.398	-5.007	.105	-.096	.270	-.669
4	-2.318	-3.123	-3.804	-.185	-.520	-.369	-.597
5	-2.051	-2.742	-3.048	-.484	-.852	-.707	-.565
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.234	-1.750	-1.890	-.789	-.957	-.452	-.126
11	-1.070	-1.401	*000.000	-.886	-1.083	-.571	-.157
12	-1.206	-.978	-.795	.607	-.713	-.366	-.240
13	-1.398	-.945	-.713	-.565	-.603	-.321	-.148
14	-1.884	-1.083	-.747	-.721	-.654	-.354	-.249
15	-.828	-1.677	.370	.407	.318	.453	.090
16	-.840	-.162	.100	.172	.134	.188	.111
17	-1.693	-1.139	-.692	-.466	-.767	-.254	-.113
18	-2.431	-1.668	-1.179	-1.125	-1.214	-.590	-.383
19	-3.456	-2.433	-1.581	-1.816	-1.685	-.664	-.420
20	-3.732	-2.543	-1.435	-1.822	-1.701	-.829	-.655
21	-3.769	-2.374	-1.141	-1.668	-1.487	-.468	-.238
22	-2.951	-1.833	-.903	-1.247	-1.056	-.434	-.311
23	-1.598	-.710	-.418	-.179	-.364	-.425	-.360
24	-1.169	-.140	-.064	-.057	-.034	-.173	-.187
25	.461	-.185	-1.566	.743	1.418	.864	-.573
26	1.089	.991	.740	.677	*000.000	.287	.059
27	.616	.940	1.005	.284	.098	-.244	.028
28	.208	.610	.790	.214	.071	-.118	-.010
29	-.107	.446	.672	.468	.372	.251	.101
30	.305	.870	.974	.778	.913	.651	.070
31	.457	.990	1.039	1.178	1.230	1.265	.332
32	.268	.730	.908	.881	.849	.758	.447
33	.163	.459	.688	.583	.552	.370	-.096

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.679	-2.501	-4.018	.596	.861	.846	-.721
2	-2.664	-3.553	-4.501	.120	.175	.250	-.640
3	-2.819	-3.684	-5.209	-.227	-.196	.057	-.710
4	-2.661	-3.427	-4.104	-.461	-.615	-.402	-.594
5	-2.236	-2.883	-3.167	-.595	-.983	-.686	-.608
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.354	-1.824	-1.912	-.950	-.995	-.404	-.178
11	-1.114	-1.405	*000.000	-.883	-1.010	-.477	-.223
12	-1.104	-.960	-.795	-.570	-.635	-.331	-.221
13	-1.493	-.970	-.702	-.492	-.463	-.214	-.255
14	-1.817	-1.048	-.766	-.664	-.597	-.259	-.304
15	-.870	-1.618	.241	.373	.305	.470	-.015
16	-.954	-.201	.083	.133	.141	.170	-.052
17	-1.770	-1.123	-.745	-.508	-.705	-.268	-.181
18	-2.443	-1.755	-1.286	-1.128	-1.001	-.522	-.390
19	-3.441	-2.398	-1.566	-1.732	-1.581	-.634	-.408
20	-3.490	-2.487	-1.399	-1.912	-1.530	-.728	-.756
21	-3.613	-2.238	-1.257	-1.594	-1.278	-.733	-.515
22	-2.960	-1.731	-.983	-1.213	-.941	-.537	-.525
23	-1.498	-.653	-.491	-.220	-.331	-.251	-.366
24	-1.137	-.145	-.139	.002	-.056	-.198	-.231
25	.067	-.484	-1.817	.945	1.338	.772	-.479
26	.941	.820	.541	.675	*000.000	.271	-.060
27	.619	.933	.954	.398	.155	-.271	-.064
28	.207	.546	.727	.207	.069	-.092	-.088
29	-.135	.410	.579	.449	.314	.150	.035
30	.325	.862	.935	.933	.955	.625	.137
31	.382	.880	.937	1.108	1.095	1.090	.306
32	.182	.673	.786	.843	.786	.611	.342
33	.095	.411	.543	.615	.577	.396	.082

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.330	-2.813	-4.146	.451	.818	.787	-.752
2	-3.133	-3.815	-4.640	-.157	.106	.398	-.560
3	-3.310	-3.881	-5.328	-.096	-.288	.008	-.560
4	-3.103	-3.650	-4.189	-.696	-.677	-.364	-.454
5	-2.547	-3.036	-3.200	-.900	-.940	-.437	-.312
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.578	-1.949	-1.865	-1.010	-.972	-.257	-.190
11	-1.247	-1.512	*000.000	-.985	-.975	-.477	-.267
12	-1.115	-1.036	-.763	-.623	-.532	-.143	-.140
13	-1.731	-1.043	-.738	-.561	-.395	-.257	-.097
14	-2.003	-1.083	-.737	-.713	-.542	-.308	-.292
15	-.930	-1.544	.347	.354	.255	.406	.061
16	-1.092	-.234	.058	.206	.173	.252	-.033
17	-1.604	-1.136	-.674	-.457	-.483	-.138	-.162
18	-2.593	-1.758	-1.253	-1.181	-.995	-.423	-.203
19	-3.452	-2.291	-1.548	-1.656	-1.260	-.647	-.503
20	-3.639	-2.528	-1.519	-1.777	-.983	-.553	-.542
21	-3.596	-2.177	-1.279	-1.550	-1.037	-.361	-.379
22	-2.841	-1.605	-1.015	-1.145	-.674	-.473	-.319
23	-1.383	-.600	-.511	-.260	-.343	-.281	-.346
24	-1.075	-.212	-.149	-.010	-.191	-.248	-.207
25	-.074	-.557	-1.834	.921	1.377	.527	-.419
26	.845	.837	.588	.714	*000.000	.343	-.072
27	.554	.924	.975	.411	.155	-.156	-.021
28	.195	.584	.761	.198	.065	-.141	.083
29	-.211	.427	.646	.416	.335	.167	.042
30	.209	.880	1.024	.960	.954	.579	.019
31	.335	.882	.946	1.085	1.107	.999	.332
32	.191	.690	.771	.850	.815	.647	.449
33	.070	.376	.537	.588	.511	.350	.016

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.805	-3.220	-4.350	.721	.966	.476	-.291
2	-3.881	-4.128	-4.663	.019	.261	.296	-.187
3	-3.819	-4.188	-5.437	-.314	-.175	.207	-.350
4	-3.463	-3.897	-4.250	-.675	-.505	.043	-.266
5	-2.716	-3.214	-3.207	-.974	-.864	-.219	-.209
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.539	-1.935	-1.743	-.932	-.750	-.107	-.139
11	-1.261	-1.521	*000.000	-.946	-.746	-.229	-.197
12	-1.162	-1.145	-.856	-.660	-.511	-.177	-.282
13	-1.792	-1.114	-.792	-.587	-.387	-.214	-.196
14	-1.950	-1.188	-.874	-.664	-.502	-.202	-.241
15	-.938	-1.544	.300	.370	.324	.420	.006
16	-.974	-.271	-.013	.148	.267	.114	-.043
17	-1.683	-1.294	-.812	-.439	-.323	-.191	-.157
18	-2.355	-1.803	-1.387	-.993	-.483	-.415	-.296
19	-3.541	-2.278	-1.689	-1.638	-1.010	-.460	-.506
20	-3.554	-2.279	-1.624	-1.729	-.980	-.567	-.504
21	-3.231	-2.051	-1.415	-1.503	-.942	-.333	-.457
22	-2.543	-1.493	-1.171	-1.137	-.728	-.403	-.322
23	-1.361	-.664	-.541	-.356	-.346	-.238	-.256
24	-.772	-.227	-.214	-.093	-.172	-.232	-.279
25	-.738	-.854	-1.944	1.019	1.417	-.008	-.252
26	.764	.773	.561	.819	*000.000	.214	-.075
27	.491	.842	.906	.226	.077	-.276	-.017
28	.126	.520	.702	.131	-.012	-.074	.011
29	-.279	.372	.576	.352	.287	.129	.023
30	.270	.882	.986	.900	.956	.643	.102
31	.267	.853	.848	1.136	1.209	.885	.177
32	.145	.670	.662	.812	.815	.591	.152
33	.103	.331	.463	.516	.489	.269	.015

Table 17. - Continued.

(a) $C_{T,s} = 0.90$, $q_s = 20.21$

$\alpha = 65°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.475	-3.647	-4.708	.730	1.052	.194	-.265
2	-4.206	-4.274	-4.678	-.023	.368	.260	-.224
3	-4.288	-4.346	-5.583	-.337	-.103	.184	-.088
4	-3.844	-4.234	-4.377	-.821	-.373	.129	-.090
5	-2.477	-3.436	-3.284	-1.024	-.655	-.041	-.215
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.856	-2.143	-1.852	-1.061	-.710	-.111	-.234
11	-1.240	-1.625	*000.000	-.946	-.590	-.160	-.234
12	-1.124	-1.111	-.803	-.549	-.357	-.128	-.128
13	-1.625	-1.072	-.825	-.525	-.314	-.213	-.230
14	-1.878	-1.102	-.865	-.536	-.390	-.223	-.217
15	-.937	-1.483	.224	.449	.395	.183	.005
16	-.958	-.297	-.004	.224	.225	.170	-.106
17	-1.593	-1.250	-.780	-.448	-.319	-.151	-.218
18	-2.251	-1.709	-1.390	-.932	-.585	-.420	-.388
19	-3.064	-2.059	-1.809	-1.367	-.896	-.623	-.264
20	-3.117	-2.097	-1.756	-1.297	-.738	-.565	-.639
21	-2.775	-1.810	-1.509	-.900	-.429	-.415	-.471
22	-2.145	-1.344	-1.213	-.851	-.527	-.316	-.405
23	-1.216	-.660	-.551	-.342	-.305	-.336	-.221
24	-.654	-.270	-.194	-.124	-.173	-.197	-.165
25	-1.185	-.980	-1.954	1.099	1.383	-.226	-.135
26	.496	.767	.537	.774	*000.000	-.094	-.133
27	.420	.859	.886	.211	.031	-.320	-.046
28	.101	.525	.676	.096	-.014	-.064	.118
29	-.275	.339	.553	.373	.274	.106	.041
30	.105	.896	.910	.925	1.013	.570	.029
31	.194	.913	.742	1.181	1.214	1.021	.138
32	.160	.641	.641	.840	.747	.596	.148
33	.135	.347	.459	.594	.550	.323	-.060

$\alpha = 70°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.830	-3.755	-4.436	.761	1.084	.149	-.221
2	-4.649	-4.838	-4.819	-.165	.576	-.032	-.073
3	-4.393	-4.806	-5.464	-.354	-.019	.177	-.262
4	-3.758	-4.240	-4.035	-.618	0.	.081	-.177
5	-3.160	-3.766	-3.388	-1.008	-.386	.039	-.196
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.756	-2.216	-1.742	-1.017	-.546	-.081	-.181
11	-1.235	-1.591	*000.000	-.886	-.610	-.217	-.032
12	-1.090	-1.071	-.776	-.526	-.324	-.173	-.121
13	-1.604	-.992	-.750	-.459	-.242	-.221	-.184
14	-1.487	-1.082	-.811	-.453	-.239	-.181	-.251
15	-.953	-1.340	.255	.405	.338	.273	-.001
16	-.933	-.272	.012	.220	.255	.131	-.078
17	-1.356	-1.150	-.712	-.372	-.194	-.102	-.121
18	-2.048	-1.617	-1.308	-.811	-.545	-.528	-.438
19	-2.636	-1.804	-1.557	-1.120	-.672	-.455	-.194
20	-2.305	-1.653	-1.559	-1.093	-.830	-.621	-.406
21	-2.320	-1.626	-1.489	-1.014	-.435	-.404	-.309
22	-1.594	-1.167	-1.120	-.705	-.476	-.250	-.125
23	-1.075	-.953	-.419	-.165	-.257	-.249	-.232
24	-.556	-.241	-.151	-.035	-.086	-.089	-.275
25	-1.710	-1.272	-2.182	1.073	1.296	-.281	-.205
26	.257	.708	.554	.843	*000.000	-.016	-.060
27	.276	.795	.878	.248	-.076	-.248	-.031
28	.091	.465	.656	.170	-.061	-.093	.012
29	-.268	.295	.537	.371	.235	.132	-.037
30	.151	.891	.866	.932	.848	.459	-.100
31	.214	.897	.720	1.163	1.139	.729	.077
32	.117	.800	.583	.807	.706	.600	.142
33	.042	.255	.406	.564	.481	.326	-.061

$\alpha = 75°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-4.119	-4.000	-4.587	.712	1.191	-.017	-.178
2	-4.859	-5.166	-4.841	-.005	.760	-.001	-.178
3	-4.671	-5.093	-5.557	-.328	.361	-.056	-.334
4	-3.846	-4.460	-4.278	-.810	.022	.009	-.245
5	-2.982	-3.734	-3.238	-1.099	-.419	-.100	-.255
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.588	-2.262	-1.731	-1.063	-.451	-.050	-.091
11	-1.308	-1.597	*000.000	-.905	-.464	-.317	-.114
12	-1.151	-1.041	-.774	-.507	-.367	-.140	-.232
13	-1.456	-.920	-.753	-.513	-.289	-.247	-.437
14	-1.590	-1.000	-.818	-.504	-.303	-.205	-.305
15	-.902	-1.286	.225	.401	.363	.225	-.066
16	-.790	-.212	.024	.270	.209	.069	-.220
17	-1.275	-1.069	-.702	-.318	-.333	-.152	-.390
18	-1.677	-1.444	-1.220	-.679	-.412	-.363	-.599
19	-2.333	-1.765	-1.603	-1.129	-.972	-.423	-.241
20	-1.996	-1.548	-1.421	-1.179	-.578	-.448	-.634
21	-2.212	-1.520	-1.497	-1.233	-.580	-.414	-.416
22	-1.530	-1.107	-1.130	-.796	-.319	-.210	-.201
23	-.816	-.566	-.441	-.303	-.275	-.267	-.218
24	-.581	-.230	-.194	-.035	-.143	-.162	-.211
25	-2.383	-1.311	-2.098	.990	1.241	-.353	-.263
26	-.048	.598	.485	.724	*000.000	-.091	-.082
27	.211	.860	.893	.136	-.250	-.321	-.160
28	-.060	.492	.661	-.051	-.135	-.034	-.224
29	-.366	.296	.500	.330	.222	.015	.032
30	.054	.847	.741	.826	.832	.369	-.098
31	.094	.899	.649	1.063	1.073	.603	-.007
32	.064	.598	.562	.836	.807	.527	-.085
33	.021	.275	.420	.523	.462	.266	-.171

$\alpha = 80°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-4.559	-4.333	-4.632	.725	.935	-.098	.053
2	-5.112	-5.544	-4.945	.106	.871	.008	.019
3	-4.857	-5.616	-5.915	-.388	.329	-.160	-.106
4	-4.028	-4.819	-4.219	-.708	.030	-.058	-.102
5	-3.141	-4.184	-3.415	-1.059	-.296	-.168	-.044
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.753	-2.273	-1.692	-1.031	-.440	-.081	-.016
11	-1.247	-1.651	*000.000	-.899	-.503	-.104	-.067
12	-1.160	-1.072	-.821	-.517	-.392	-.095	-.118
13	-1.508	-.950	-.720	-.457	-.298	-.163	-.151
14	-1.343	-.918	-.770	-.507	-.312	-.221	-.332
15	-1.021	-1.347	.199	.359	.310	-.018	-.029
16	-.642	-.118	-.003	.267	.252	-.044	-.100
17	-1.424	-1.069	-.708	-.228	-.238	-.101	-.239
18	-1.697	-1.440	-1.291	-.778	-.569	-.383	-.402
19	-2.356	-1.715	-1.673	-1.156	-.706	-.382	-.530
20	-2.098	-1.468	-1.408	-1.012	-.568	-.352	-.222
21	-1.626	-1.259	-1.269	-.758	-.303	-.281	-.189
22	-1.043	-1.151	-1.148	-.602	-.280	-.157	-.139
23	-.901	-.575	-.467	-.243	-.281	-.258	-.186
24	-.598	-.231	-.187	-.102	-.199	-.206	-.116
25	-2.819	-1.556	-2.299	1.132	1.021	-.246	-.041
26	-.318	.574	.447	.716	*000.000	-.116	-.129
27	.098	.830	.871	.022	-.408	-.080	-.024
28	-.090	.436	.603	-.084	-.241	-.007	0.
29	-.302	.267	.446	.298	.071	-.061	-.030
30	-.019	.810	.717	.737	.757	.020	.035
31	.048	.881	.586	1.189	1.130	.294	.115
32	0.	.520	.470	.732	.511	.287	.179
33	-.022	.272	.366	.534	.373	.158	-.049

Table 17.- Continued.

(b) $C_{T,S} = 0.80$, $q_s = 19.96$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.899	.646	.251	.039	1.130	1.140	.100
2	.241	-.180	-.414	.670	1.043	.921	-.080
3	-.014	-.482	-.732	.811	.922	.765	-.054
4	-.336	-.825	-.904	.599	.511	.290	-.361
5	-.642	-1.089	-1.151	.313	.124	-.087	-.335
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.566	-.959	-1.250	-.291	-.431	-.322	-.284
11	-.510	-.958	*000.000	-.549	-.730	-.611	-.428
12	-1.112	-.687	-.783	-.366	-.654	-.490	-.381
13	-.517	-.725	-.762	-.492	-.597	-.453	-.284
14	-.573	-.713	-.740	-.538	-.621	-.502	-.316
15	.126	-.710	.223	.416	.316	.323	.131
16	.093	.084	.114	.180	.136	.141	-.005
17	-.461	-.758	-.574	-.249	-.486	-.346	-.241
18	-.941	-1.350	-1.312	-.712	-1.104	-1.078	-.572
19	-1.349	-1.838	-1.852	-1.256	-1.635	-1.479	-.760
20	-1.522	-1.953	-1.902	-1.380	-1.600	-1.639	-1.040
21	-1.521	-1.715	-1.588	-1.080	-1.403	-1.433	-.896
22	-1.501	-1.292	-1.034	-.576	-.708	-1.159	-.773
23	-1.277	-.327	-.166	-.210	-.108	-.250	-.498
24	-.535	-.030	-.084	-.136	-.073	-.059	-.201
25	1.072	1.169	.790	-.435	.496	.428	.241
26	.562	.944	.921	-.428	*000.000	-.286	.323
27	0.	.428	.530	.462	-.535	-.539	.004
28	.012	.283	.392	.143	-.119	-.140	.052
29	.142	.415	.376	.403	.336	.289	.218
30	.774	1.075	.840	.383	.638	.747	.213
31	.846	1.013	.893	.469	1.077	1.080	.660
32	.579	.852	.767	.508	.836	.799	.643
33	.343	.613	.610	.442	.526	.506	.066

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.694	.137	-.519	.379	1.213	1.209	.223
2	-.086	-.714	-.984	.457	.931	.757	-.026
3	-.354	-1.142	-1.514	.502	.647	.559	-.421
4	-.655	-1.340	-1.441	.473	.275	.109	-.647
5	-.838	-1.411	-1.512	-.005	-.147	-.370	-.648
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.670	-1.187	-1.387	-.448	-.579	-.440	-.443
11	-.619	-1.128	*000.000	-.647	-.880	-.734	-.588
12	-1.239	-.793	-.838	-.425	-.724	-.520	-.403
13	-.569	-.775	-.759	-.514	-.648	-.505	-.419
14	-.679	-.760	-.754	-.592	-.705	-.515	-.327
15	.007	-.909	.223	.380	.312	.340	.040
16	-.069	.030	.077	.071	.124	.141	.040
17	-.626	-.845	-.638	-.327	-.613	-.418	-.329
18	-1.090	-1.376	-1.306	-.824	-1.132	-1.117	-.583
19	-1.586	-1.898	-1.841	-1.315	-1.776	-1.583	-.940
20	-1.769	-1.996	-1.707	-1.385	-1.670	-1.690	-1.115
21	-1.725	-1.733	-1.581	-1.132	-1.506	-1.482	-1.101
22	-1.865	-1.268	-1.028	-.649	-.821	-1.154	-.882
23	-1.446	-.337	-.155	-.157	-.141	-.312	-.700
24	-.651	-.206	-.189	-.161	-.130	-.157	-.241
25	1.145	1.068	.465	-.056	.801	.686	.290
26	.795	1.056	.882	-.067	*000.000	.146	.262
27	.230	.621	.720	-.040	-.327	-.327	-.006
28	.069	.389	.497	.207	-.023	-.032	-.006
29	.102	.438	.435	.367	.308	.318	.171
30	.699	1.036	.922	.538	.829	.844	.246
31	.789	1.036	.965	.636	1.137	1.204	.651
32	.505	.777	.763	.598	.834	.813	.777
33	.328	.573	.589	.458	.541	.521	-.028

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.543	-.373	-1.509	.219	1.203	1.199	.056
2	-.396	-1.361	-1.833	.402	.773	.622	-.257
3	-.701	-1.728	-2.480	.187	.450	.292	-.442
4	-.934	-1.929	-2.186	-.241	-.016	-.200	-.651
5	-.999	-1.798	-1.901	-.220	-.460	-.570	-.712
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.766	-1.345	-1.586	-.547	-.768	-.537	-.488
11	-.725	-1.223	*000.000	-.703	-.997	-.827	-.585
12	-1.307	-.887	-.896	-.504	-.801	-.600	-.431
13	-.670	-.847	-.778	-.539	-.699	-.570	-.333
14	-.844	-.850	-.769	-.601	-.769	-.589	-.363
15	-.123	-1.070	.276	.399	.339	.434	.090
16	-.226	-.030	.079	.153	.122	.164	.057
17	-.804	-.920	-.665	-.370	-.644	-.373	-.269
18	-1.428	-1.542	-1.429	-.851	-1.265	-1.365	-.732
19	-1.961	-1.979	-1.824	-1.406	-1.827	-1.662	-.999
20	-2.307	-2.026	-1.816	-1.480	-1.835	-1.795	-1.166
21	-2.227	-1.787	-1.542	-1.222	-1.599	-1.548	-1.091
22	-2.303	-1.308	-1.149	-.731	-1.031	-1.205	-.875
23	-1.509	-.380	-.206	-.161	-.144	-.272	-.686
24	-.688	-.280	-.127	-.085	-.138	-.069	-.156
25	1.164	.824	-.142	-.076	1.053	.880	.291
26	.991	1.105	.820	.148	*000.000	.316	.396
27	.390	.816	.883	.194	-.126	-.186	.026
28	.169	.498	.641	.228	.047	-.026	.090
29	.107	.460	.504	.407	.392	.355	.228
30	.861	1.046	.961	.477	.893	.913	.235
31	.778	1.021	.974	.563	1.189	1.210	.700
32	.560	.800	.801	.669	.890	.867	.885
33	.340	.545	.618	.552	.588	.542	.093

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.084	-1.079	-2.482	.357	1.018	1.033	-.309
2	-.878	-2.202	-2.980	.072	.375	.231	-.691
3	-1.091	-2.480	-3.541	-.179	.048	-.039	-.779
4	-1.336	-2.422	-2.740	-.315	-.366	-.458	-.987
5	-1.424	-2.378	-2.551	-.427	-.758	-.835	-1.070
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.938	-1.553	-1.735	-.665	-.923	-.693	-.591
11	-.847	-1.325	*000.000	-.853	-1.117	-.905	-.657
12	-1.375	-.933	-.875	-.508	-.864	-.611	-.438
13	-.880	-.918	-.784	-.555	-.765	-.599	-.449
14	-1.115	-.965	-.783	-.645	-.817	-.607	-.448
15	-.347	-1.173	.347	.443	.323	.422	.073
16	-.489	-.083	.067	.169	.075	.184	-.012
17	-1.103	-1.054	-.744	-.429	-.826	-.437	-.309
18	-1.862	-1.728	-1.399	-1.122	-1.482	-1.387	-.808
19	-2.476	-2.170	-1.773	-1.580	-1.958	-1.722	-.943
20	-2.941	-2.305	-1.739	-1.640	-1.901	-1.871	-1.149
21	-3.087	-2.208	-1.481	-1.526	-1.718	-1.623	-1.180
22	-2.694	-1.608	-1.026	-1.016	-1.144	-1.285	-.889
23	-1.614	-.522	-.266	-.155	-.242	-.390	-.746
24	-.839	-.196	.045	-.095	-.177	-.125	-.201
25	1.050	.498	-.924	.523	1.274	1.098	.021
26	1.047	1.099	.721	.493	*000.000	.629	.348
27	.460	.884	.851	.486	.058	-.055	.047
28	.168	.531	.668	.314	.120	.042	.073
29	.046	.521	.608	.507	.460	.392	.282
30	.508	.975	.921	.830	.952	.964	.141
31	.620	.988	.984	.963	1.177	1.232	.733
32	.416	.766	.832	.834	.860	.839	.807
33	.235	.526	.658	.568	.580	.513	.035

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.252	-1.867	-3.524	.420	.808	.857	-.471
2	-1.331	-3.005	-4.019	-.160	.026	-.008	-1.069
3	-1.438	-3.162	-4.559	-.214	-.393	-.376	-1.192
4	-1.573	-2.903	-3.442	-.504	-.791	-.785	-1.405
5	-1.543	-2.708	-3.061	-.621	-1.182	-1.190	-1.343
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.045	-1.702	-1.979	-.841	-1.175	-.852	-.668
11	-.888	-1.371	*000.000	-.898	-1.233	-.941	-.619
12	-1.290	-.923	-.818	-.561	-.888	-.609	-.420
13	-1.041	-.960	-.820	-.619	-.825	-.607	-.370
14	-1.303	-.959	-.806	-.677	-.814	-.603	-.370
15	-.534	-1.214	.346	.450	.329	.409	.074
16	-.655	-.109	.050	.252	.050	.151	.009
17	-1.342	-1.076	-.719	-.524	-.849	-.484	-.317
18	-2.054	-1.614	-1.303	-1.075	-1.414	-1.300	-.692
19	-2.910	-2.168	-1.620	-1.704	-2.046	-1.683	-.941
20	-3.556	-2.424	-1.512	-1.964	-2.152	-1.964	-1.148
21	-3.503	-2.220	-1.280	-1.564	-1.794	-1.660	-1.065
22	-2.957	-1.654	-.944	-1.069	-1.044	-1.260	-.893
23	-1.709	-.574	-.339	-.276	-.303	-.511	-.612
24	-1.108	-.193	-.016	-.117	-.340	-.246	-.204
25	.908	.067	-1.352	.664	1.308	1.151	-.017
26	1.082	1.043	.594	.744	*000.000	.699	.295
27	.630	1.034	1.023	.701	.271	.034	.043
28	.216	.639	.741	.379	.192	.102	.086
29	.057	.543	.636	.548	.472	.415	.317
30	.397	.943	.926	1.008	.991	.962	.157
31	.563	.981	.974	1.051	1.129	1.207	.508
32	.434	.836	.875	.907	.927	.885	.887
33	.232	.568	.721	.685	.621	.571	.175

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.640	-2.569	-4.511	.018	.538	.679	-1.126
2	-1.791	-3.658	-4.800	-.559	-.351	-.329	-1.507
3	-1.886	-3.635	-5.418	-.696	-.756	-.627	-1.459
4	-1.836	-3.216	-3.888	-.866	-1.112	-1.051	-1.510
5	-1.978	-3.110	-3.479	-.980	-1.497	-1.496	-1.581
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.202	-1.855	-2.123	-1.018	-1.314	-.911	-.717
11	-1.002	-1.439	*000.000	-1.010	-1.283	-.991	-.612
12	-1.302	-.991	-.869	-.671	-.953	-.688	-.439
13	-1.187	-.928	-.736	-.644	-.795	-.557	-.318
14	-1.527	-.994	-.766	-.771	-.841	-.618	-.432
15	-.713	-1.189	.400	.496	.350	.414	.035
16	-.844	-.155	.066	.192	.081	.160	.011
17	-1.536	-1.079	-.743	-.578	-.814	-.422	-.251
18	-2.332	-1.734	-1.316	-1.221	-1.523	-1.210	-.643
19	-3.262	-2.223	-1.537	-1.815	-2.003	-1.593	-.960
20	-3.889	-2.434	-1.450	-2.056	-2.075	-1.630	-.931
21	-3.726	-2.203	-1.140	-1.606	-1.724	-1.475	-.921
22	-3.197	-1.645	-.928	-1.241	-1.182	-1.123	-.786
23	-1.659	-.591	-.380	-.204	-.282	-.512	-.455
24	-1.277	-.103	-.088	-.174	-.202	-.171	-.242
25	.753	-.466	-2.103	.832	1.508	1.228	-.480
26	1.147	.996	.540	.935	*000.000	.817	.229
27	.675	1.025	.965	.875	.428	.165	.214
28	.274	.705	.847	.421	.299	.089	.044
29	.024	.580	.686	.603	.515	.374	.254
30	.360	.991	1.018	1.047	1.085	1.031	.259
31	.507	1.018	1.068	1.214	1.213	1.307	.573
32	.371	.793	.832	.905	.935	.878	.907
33	.235	.547	.691	.630	.657	.518	.068

Table 17.- Continued.

(b) $C_{T,S} = 0.80$, $q_s = 19.96$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.144	-3.504	-5.348	.060	.448	.740	-1.311
2	-2.185	-4.528	-5.619	-.889	-.685	-.474	-1.595
3	-2.463	-4.550	-6.467	-1.304	-1.125	-.709	-1.493
4	-2.307	-3.793	-4.603	-1.294	-1.434	-1.216	-1.487
5	-2.076	-3.301	-3.727	-1.304	-1.663	-1.304	-1.067
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.442	-2.195	-2.406	-1.368	-1.517	-.958	-.622
11	-1.140	-1.548	*000.000	-1.177	-1.331	-.832	-.526
12	-1.445	-1.143	-.970	-.744	-.950	-.591	-.386
13	-1.413	-1.056	-.864	-.751	-.807	-.363	-.279
14	-1.671	-1.034	-.820	-.822	-.810	-.502	-.309
15	-.828	-1.157	.405	.510	.343	.453	-.001
16	-.890	-.167	.053	.228	.045	.200	-.017
17	-1.726	-1.126	-.797	-.481	-.848	-.202	-.292
18	-2.566	-1.804	-1.393	-1.417	-1.671	-1.171	-.681
19	-3.379	-2.250	-1.582	-1.958	-2.026	-1.205	-.658
20	-4.042	-2.538	-1.454	-2.258	-2.209	-1.352	-.931
21	-3.665	-2.279	-1.249	-1.826	-1.705	-.924	-.492
22	-3.027	-1.601	-.925	-1.208	-1.142	-.853	-.639
23	-1.708	-.571	-.466	-.197	-.404	-.470	-.485
24	-1.250	-.117	-.154	-.104	-.100	-.275	-.248
25	.526	-.919	-2.535	.928	1.512	1.185	-.655
26	1.163	.898	.488	1.072	*000.000	.830	-.096
27	.980	.941	.964	.966	.501	.113	.199
28	.275	.719	.824	.424	.289	.082	.197
29	-.040	.584	.731	.618	.512	.393	.157
30	.249	.976	1.050	1.072	1.105	.953	.349
31	.446	1.008	1.028	1.187	1.188	1.211	.523
32	.356	.809	.886	.959	.968	.895	.909
33	.226	.513	.663	.678	.621	.526	.128

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.825	-4.132	-5.814	-.174	.289	.674	-1.203
2	-2.765	-4.894	-5.856	-1.050	-.713	-.304	-1.149
3	-2.843	-4.864	-6.533	-1.318	-1.109	-.491	-1.181
4	-2.835	-4.413	-5.128	-1.549	-1.370	-.872	-1.030
5	-2.365	-3.569	-3.901	-1.715	-1.672	-1.196	-1.113
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.432	-2.034	-2.091	-1.333	-1.329	-.581	-.288
11	-1.272	-1.566	*000.000	-1.259	-1.301	-.677	-.384
12	-1.363	-1.136	-.967	-.750	-.846	-.439	-.254
13	-1.635	-1.089	-.846	-.755	-.717	-.337	-.467
14	-1.888	-1.057	-.856	-.810	-.736	-.398	-.367
15	-.916	-1.106	.402	.497	.349	.473	-.067
16	-1.053	-.170	.055	.197	.163	.170	.041
17	-1.833	-1.179	-.803	-.653	-.763	-.149	-.344
18	-2.575	-1.792	-1.395	-1.400	-1.280	-.831	-.639
19	-3.538	-2.330	-1.705	-2.125	-1.954	-1.055	-.779
20	-3.858	-2.250	-1.456	-2.137	-1.940	-1.002	-.899
21	-4.017	-2.305	-1.472	-2.069	-1.797	-.699	-.970
22	-3.067	-1.573	-1.062	-1.312	-1.263	-.821	-.683
23	-1.790	-.585	-.548	-.268	-.484	-.515	-.503
24	-1.374	-.174	-.196	-.017	-.142	-.278	-.266
25	.207	-1.412	-3.059	.899	1.471	1.241	-.623
26	1.057	.772	.444	1.142	*000.000	.894	-.058
27	.736	1.036	.974	.728	.581	.227	.082
28	.245	.779	.944	.542	.348	.137	.091
29	-.097	.560	.733	.608	.494	.360	.162
30	.156	.988	1.041	1.115	1.126	.824	.211
31	.338	.981	.994	1.204	1.230	1.187	.322
32	.276	.801	.792	.976	.919	.779	.510
33	.182	.493	.645	.682	.627	.472	-.031

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.234	-4.618	-6.503	-.369	.116	.625	-1.187
2	-3.381	-5.602	-6.395	-1.375	-.945	-.294	-.819
3	-3.546	-5.673	-7.414	-1.810	-1.443	-.750	-1.148
4	-3.302	-4.953	-5.644	-1.903	-1.562	-.950	-.926
5	-2.730	-3.894	-4.108	-1.879	-1.748	-1.133	-.676
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.595	-2.212	-2.204	-1.510	-1.306	-.501	-.159
11	-1.489	-1.756	*000.000	-1.440	-1.285	-.569	-.053
12	-1.320	-1.164	-.940	-.853	-.772	-.343	-.246
13	-1.792	-1.173	-.933	-.854	-.738	-.447	-.160
14	-2.181	-1.208	-.956	-.936	-.740	-.389	-.212
15	-.972	-1.045	.329	.479	.359	.386	.021
16	-1.060	-.191	.048	.154	.139	.161	-.043
17	-1.818	-1.208	-.779	-.740	-.545	-.122	-.249
18	-2.812	-1.898	-1.489	-1.518	-1.418	-.840	-.547
19	-3.616	-2.303	-1.793	-2.141	-1.788	-.862	-.677
20	-3.844	-2.245	-1.634	-2.196	-1.711	-.770	-.729
21	-3.639	-2.203	-1.492	-2.041	-1.721	-.808	-.771
22	-2.744	-1.463	-1.173	-1.372	-.946	-.508	-.479
23	-1.716	-.641	-.630	-.377	-.557	-.580	-.489
24	-1.251	-.231	-.205	-.055	-.160	-.214	-.166
25	-.162	-1.487	-3.495	.884	1.480	1.133	-.795
26	1.007	.716	.356	1.141	*000.000	.840	-.099
27	.745	1.046	1.023	.800	.637	.178	.161
28	.253	.761	.878	.417	.335	.052	.188
29	-.154	.550	.710	.538	.457	.269	.239
30	.175	1.027	1.100	1.105	1.167	.923	.267
31	.280	.993	.939	1.167	1.208	1.209	.298
32	.246	.794	.815	.946	.929	.734	.745
33	.173	.479	.588	.631	.598	.357	.033

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.919	-5.173	-6.556	-.533	.093	.506	-1.168
2	-4.101	-6.092	-6.690	-1.647	-1.054	-.549	-1.355
3	-3.913	-5.785	-7.156	-1.994	-1.529	-.677	-1.345
4	-3.544	-4.971	-5.330	-1.944	-1.629	-.872	-.954
5	-3.010	-4.090	-4.151	-2.140	-1.823	-.979	-.594
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.811	-2.422	-2.279	-1.697	-1.436	-.526	-.450
11	-1.511	-1.791	*000.000	-1.422	-1.143	-.532	-.535
12	-1.267	-1.177	-.903	-.848	-.616	-.325	-.503
13	-1.772	-1.119	-.892	-.788	-.514	-.199	-.553
14	-2.171	-1.178	-.931	-.827	-.548	-.291	-.399
15	-1.064	-1.070	.388	.432	.310	.456	-.270
16	-1.159	-.291	.046	.115	.234	.215	-.232
17	-1.799	-1.323	-.846	-.651	-.457	-.349	-.631
18	-2.750	-1.949	-1.588	-1.427	-1.218	-.650	-.823
19	-3.426	-2.267	-1.886	-2.155	-1.630	-.904	-.648
20	-3.708	-2.296	-1.760	-2.284	-1.457	-.733	-.934
21	-3.260	-2.045	-1.580	-2.021	-1.441	-.692	-.879
22	-2.454	-1.467	-1.221	-1.489	-1.238	-.836	-.805
23	-1.534	-.700	-.545	-.380	-.425	-.419	-.367
24	-.957	-.287	-.198	-.017	-.146	-.207	-.511
25	-.647	-2.216	-3.614	.795	1.452	1.039	-.742
26	.843	.653	.267	1.192	*000.000	.775	-.447
27	.722	1.097	1.040	.824	.690	.169	-.106
28	.236	.780	.932	.416	.345	.106	-.070
29	-.183	.501	.723	.512	.460	.273	-.118
30	.144	.956	1.041	1.038	1.049	.653	.176
31	.320	.998	.965	1.210	1.229	1.118	.455
32	.196	.751	.762	.900	.865	.660	.139
33	.106	.440	.539	.654	.591	.399	.118

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.829	-5.759	-6.725	-.665	.054	.410	-1.024
2	-4.877	-6.781	-7.061	-1.904	-1.127	-.319	-.801
3	-4.928	-6.532	-7.580	-1.864	-1.446	-.389	-.717
4	-4.080	-5.388	-5.637	-2.234	-1.747	-.834	-.437
5	-3.516	-4.469	-4.236	-2.216	-1.736	-.801	-.723
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.887	-2.486	-2.223	-1.687	-1.317	-.409	-.133
11	-1.583	-1.847	*000.000	-1.460	-1.186	-.415	-.285
12	-1.320	-1.161	-.917	-.828	-.666	-.234	-.097
13	-1.794	-1.083	-.903	-.737	-.595	-.299	-.320
14	-2.005	-1.139	-.917	-.729	-.538	-.242	-.322
15	-1.013	-.993	.326	.421	.340	.456	-.078
16	-.929	-.283	-.018	.113	.158	.173	.007
17	-1.783	-1.474	-.955	-.809	-.498	-.131	-.366
18	-2.379	-1.954	-1.637	-1.506	-1.140	-.683	-.604
19	-2.835	-2.147	-1.956	-1.940	-1.302	-.714	-.797
20	-3.134	-2.087	-1.867	-2.105	-1.312	-.736	-.809
21	-2.784	-1.806	-1.614	-1.879	-1.357	-.863	-.797
22	-2.281	-1.418	-1.307	-1.321	-.844	-.538	-.621
23	-1.424	-.756	-.531	-.398	-.403	-.302	-.336
24	-.881	-.275	-.248	-.068	-.212	-.204	-.287
25	-1.442	-2.438	-3.590	.786	1.361	.833	-.845
26	.451	.659	.280	1.200	*000.000	.702	-.108
27	.555	1.138	1.039	.891	.670	.173	.151
28	.121	.794	.899	.447	.326	.074	.256
29	-.229	.488	.707	.516	.440	.293	.221
30	.126	.993	.996	1.040	1.065	.669	.046
31	.270	1.034	.773	1.104	1.157	.972	.104
32	.193	.812	.624	1.087	.856	.674	.322
33	.157	.430	.498	.664	.589	.426	-.004

Table 17.- Continued.

(b) $C_{T,s} = 0.80$, $q_s = 19.96$

$\alpha = 60°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-5.137	-6.525	-7.330	-1.199	-.411	.047	-1.220
2	-5.377	-7.179	-6.918	-2.042	-1.143	-.262	-.722
3	-5.210	-7.044	-7.656	-2.287	-1.516	-.306	-.471
4	-4.419	-5.869	-5.893	-2.442	-1.653	-.665	-.456
5	-3.400	-4.507	-4.065	-2.173	-1.664	-.568	-.406
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.828	-2.595	-2.185	-1.720	-1.201	-.325	-.205
11	-1.405	-1.848	*000.000	-1.431	-1.002	-.370	-.199
12	-1.380	-1.264	-1.012	-.881	-.644	-.281	-.206
13	-1.883	-1.164	-.978	-.813	-.569	-.327	-.308
14	-1.915	-1.167	-.997	-.775	-.455	-.290	-.294
15	-1.001	-.943	.310	.377	.376	.322	-.027
16	-.921	-.273	-.059	.159	.236	.141	-.033
17	-1.553	-1.335	-.958	-.697	-.647	-.317	-.219
18	-2.308	-1.841	-1.594	-1.365	-.790	-.591	-.507
19	-2.869	-2.204	-2.043	-2.025	-1.439	-.854	-.831
20	-3.117	-2.242	-2.022	-1.950	-1.002	-.487	-.708
21	-2.382	-1.772	-1.641	-1.688	-1.083	-.737	-.495
22	-1.913	-1.326	-1.278	-1.250	-.913	-.478	-.450
23	-1.135	-.661	-.444	-.482	-.425	-.379	-.393
24	-.700	-.363	-.356	-.112	-.174	-.213	-.219
25	-2.624	-3.007	-3.848	.531	1.403	.763	-1.089
26	.158	.569	.328	1.166	*000.000	.483	-.067
27	.266	1.008	1.022	.813	.658	.065	-.020
28	.078	.720	.895	.365	.303	.020	.160
29	-.257	.396	.565	.422	.364	.207	.022
30	.106	1.008	.834	1.005	1.006	.661	.056
31	.179	1.037	.625	1.167	1.203	.876	.340
32	.143	.681	.606	.870	.842	.600	.279
33	.114	.309	.432	.641	.571	.425	-.020

$\alpha = 65°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-5.353	-6.564	-6.765	-.748	-.021	.384	-.570
2	-5.864	-7.753	-7.079	-2.155	-1.131	.124	-.411
3	-5.071	-7.020	-7.092	-2.203	-1.306	-.070	-.266
4	-4.158	-5.960	-5.604	-2.382	-1.701	-.424	-.383
5	-3.213	-4.762	-4.108	-2.261	-1.662	-.445	-.279
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.640	-2.651	-2.195	-1.747	-1.189	-.264	-.123
11	-1.177	-1.694	*000.000	-1.301	-.820	-.225	-.206
12	-1.251	-1.224	-.958	-.863	-.485	-.243	-.139
13	-1.590	-1.131	-1.009	-.770	-.517	-.276	-.230
14	-1.763	-1.203	-1.041	-.753	-.526	-.228	-.210
15	-.861	-.847	.345	.394	.372	.347	-.141
16	-.772	-.221	-.036	.154	.286	.152	-.028
17	-1.224	-1.237	-.834	-.658	-.379	-.156	-.173
18	-1.912	-1.691	-1.448	-1.088	-.825	-.691	-.580
19	-2.114	-1.884	-1.727	-1.567	-1.034	-.528	-.588
20	-1.987	-1.794	-1.748	-1.878	-1.068	-.435	-.497
21	-2.004	-1.658	-1.556	-1.465	-.845	-.650	-.649
22	-1.452	-1.208	-1.280	-.793	-.536	-.467	-.622
23	-.833	-.523	-.437	-.426	-.311	-.286	-.362
24	-.574	-.297	-.252	-.107	-.106	-.204	-.163
25	-3.445	-3.345	-3.842	.668	1.370	.482	-.530
26	-.285	.365	.312	1.221	*000.000	.389	-.272
27	.099	.854	.965	.849	.671	.132	.068
28	.078	.595	.859	.384	.282	.056	.041
29	-.160	.301	.586	.435	.343	.201	.124
30	.150	.940	.711	.953	.910	.661	.031
31	.209	.958	.632	1.147	1.113	.859	.183
32	.212	.594	.588	.892	.811	.558	.450
33	.148	.222	.463	.586	.534	.359	.040

$\alpha = 70°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-5.558	-7.062	-6.497	-.900	.061	.550	-.060
2	-5.636	-8.162	-6.870	-2.237	-.963	.070	-.258
3	-4.414	-7.097	-6.628	-2.188	-1.103	-.041	-.180
4	-3.902	-6.476	-5.656	-2.495	-1.547	-.264	-.338
5	-3.140	-5.126	-4.166	-2.275	-1.381	-.200	-.189
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.583	-2.640	-2.110	-1.753	-1.037	-.186	-.147
11	-1.152	-1.667	*000.000	-1.278	-.642	-.181	-.088
12	-1.225	-1.144	-.913	-.742	-.435	-.150	-.072
13	-1.588	-1.159	-.953	-.705	-.369	-.283	-.257
14	-1.474	-.973	-.850	-.564	-.427	-.194	-.231
15	-.896	-.877	.300	.439	.388	.390	-.033
16	-.903	-.246	-.068	.168	.218	.095	-.100
17	-1.218	-1.028	-.785	-.526	-.452	-.242	-.254
18	-1.669	-1.468	-1.231	-1.092	-.758	-.600	-.610
19	-1.658	-1.634	-1.623	-1.189	-.896	-.646	-.591
20	-1.659	-1.608	-1.602	-1.238	-.739	-.591	-.527
21	-1.591	-1.462	-1.612	-1.063	-.698	-.655	-.464
22	-1.243	-1.053	-1.226	-.687	-.530	-.563	-.512
23	-.700	-.422	-.430	-.420	-.395	-.335	-.343
24	-.459	-.301	-.216	-.194	-.190	-.212	-.211
25	-4.084	-3.836	-3.273	.672	1.271	.197	-.202
26	-.821	.050	.247	1.134	*000.000	.477	-.161
27	-.268	.610	.974	.765	.516	-.056	.140
28	-.104	.439	.795	.299	.193	.017	.117
29	-.149	.278	.457	.406	.324	.233	.212
30	.018	.885	.635	.897	.850	.570	.004
31	.164	.872	.635	1.080	1.031	.794	.146
32	.054	.452	.487	.793	.761	.575	.377
33	.131	.168	.444	.558	.489	.351	.128

$\alpha = 75°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-3.913	-4.840	-5.246	-1.147	-.027	.260	-.498
2	-4.018	-7.514	-6.193	-2.179	-.880	-.194	-.380
3	-3.734	-7.253	-6.898	-2.382	-1.041	-.215	-.330
4	-2.731	-5.688	-5.102	-2.326	-1.062	-.304	-.290
5	-2.266	-4.337	-3.770	-2.040	-1.118	-.167	-.167
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.510	-2.143	-2.010	-1.667	-.898	-.132	-.221
11	-1.017	-1.465	*000.000	-1.139	-.598	-.327	-.229
12	-1.153	-1.041	-.835	-.634	-.370	-.208	-.172
13	-1.237	-.922	-.861	-.663	-.381	-.282	-.277
14	-1.108	-.871	-.894	-.744	-.527	-.334	-.281
15	-.695	-.821	.206	.401	.346	.312	-.052
16	-.689	-.219	-.070	.294	.285	.103	-.052
17	-.880	-.815	-.670	-.512	-.399	-.149	-.348
18	-1.213	-1.277	-1.349	-1.115	-1.050	-.837	-.781
19	-1.391	-1.372	-1.510	-1.038	-.658	-.539	-.408
20	-1.098	-1.282	-1.573	-1.263	-.853	-.459	-.615
21	-.920	-.972	-1.373	-.762	-.573	-.493	-.477
22	-.788	-.797	-1.105	-.667	-.604	-.454	-.475
23	-.692	-.522	-.411	-.513	-.510	-.600	-.654
24	-.462	-.297	-.157	-.107	-.147	-.221	-.296
25	-3.741	-3.818	-3.114	.698	1.330	-.055	-.162
26	-.534	.217	.572	1.146	*000.000	.134	-.058
27	-.297	.424	.888	.787	.490	.058	-.005
28	-.026	.360	.732	.261	.117	.084	.161
29	-.095	.250	.494	.397	.280	.180	.130
30	.130	.833	.588	1.012	.984	.597	.061
31	.232	.745	.623	1.206	1.125	.866	.119
32	.135	.421	.533	.812	.681	.463	.253
33	.089	.086	.339	.463	.322	.145	-.108

Table 17.-- Continued.

(c) $C_{T,S} = 0.60$, $q_s = 22.09$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.864	.530	-.039	.010	1.165	1.139	.548
2	.137	-.376	-.631	.525	.774	.641	.224
3	-.071	-.674	-.868	.393	.379	.307	-.064
4	-.458	-1.032	-1.032	-.075	.092	-.041	-.363
5	-.800	-1.338	-1.312	-.403	-.422	-.482	-.570
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.712	-1.136	-1.369	-.761	-.853	-.844	-.493
11	-.744	-1.225	*000.000	-.947	-1.102	-.915	-.748
12	-1.373	-.933	-.957	-.683	-.934	-.735	-.505
13	-.672	-.877	-.800	-.621	-.749	-.673	-.499
14	-.785	-.872	-.780	-.676	-.803	-.642	-.462
15	.045	-.117	.181	.247	.293	.296	-.020
16	-.091	-.024	.077	.021	.079	.102	-.099
17	-.715	-1.004	-.722	-.451	-.742	-.568	-.483
18	-1.285	-1.599	-1.375	-.922	-1.417	-1.491	-.975
19	-1.733	-1.996	-1.760	-1.554	-1.984	-1.769	-1.088
20	-2.074	-2.182	-1.805	-1.544	-1.893	-1.992	-1.379
21	-1.965	-1.624	-1.479	-1.147	-1.676	-1.613	-1.060
22	-1.974	-1.382	-.970	-.593	-1.068	-1.138	-.944
23	-1.395	-.312	-.199	-.151	-.199	-.295	-.609
24	-.732	-.180	-.144	-.130	-.177	-.134	-.345
25	1.045	1.068	.453	.285	.899	.833	.648
26	.677	.994	.688	.230	*000.000	.301	.208
27	.051	.402	.384	.207	-.237	-.190	.021
28	0.	.220	.326	.056	-.022	-.005	.076
29	.131	.382	.362	.306	.354	.375	.289
30	.792	1.117	.954	.424	.933	.995	.290
31	.858	1.070	.891	.698	1.170	1.200	.929
32	.537	.803	.605	.611	.822	.795	.777
33	.298	.582	.443	.421	.542	.531	.196

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.515	-.126	-.974	.259	.972	.888	.429
2	-.242	-1.203	-1.619	-.239	.219	.015	-.351
3	-.615	-1.619	-2.041	-.346	-.072	-.203	-.628
4	-.997	-1.607	-1.616	-.647	-.522	-.670	-.893
5	-1.137	-1.875	-1.875	-.879	-.904	-1.025	-1.049
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.964	-1.484	-1.685	-.991	-1.155	-.899	-.741
11	-.865	-1.306	*000.000	-1.019	-1.215	-1.080	-.887
12	-1.439	-1.038	-.997	-.773	-1.043	-.868	-.686
13	-.782	-.911	-.819	-.664	-.862	-.749	-.533
14	-1.009	-.965	-.839	-.761	-.907	-.752	-.587
15	-.129	-.254	.119	.291	.302	.305	-.146
16	-.292	-.049	.048	.059	.043	.058	-.084
17	-.959	-1.007	-.724	-.471	-.874	-.611	-.503
18	-1.532	-1.804	-1.390	-1.057	-1.495	-1.517	-.954
19	-2.174	-2.034	-1.822	-1.611	-2.045	-1.905	-1.238
20	-2.555	-2.097	-1.730	-1.645	-2.014	-2.003	-1.442
21	-2.747	-1.927	-1.495	-1.342	-1.841	-1.728	-1.275
22	-2.561	-1.414	-1.092	-1.078	-1.172	-1.421	-1.121
23	-1.682	-.353	-.256	-.174	-.255	-.449	-.812
24	-.939	-.284	-.183	-.148	-.259	-.327	-.414
25	1.114	1.028	-.076	.329	1.235	1.157	.909
26	.843	1.042	.593	.457	*000.000	.760	.634
27	.293	.678	.621	.278	.076	.151	.254
28	.105	.386	.495	.305	.126	.116	.145
29	.108	.434	.448	.462	.437	.396	.296
30	.634	1.036	.897	.727	.946	.955	.277
31	.700	.998	.785	.930	1.134	1.118	.708
32	.478	.789	.667	.742	.844	.759	.790
33	.283	.559	.514	.570	.556	.513	.044

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.016	-1.188	-2.455	-.369	.033	.618	-.033
2	-1.015	-2.492	-3.220	-.776	-.277	-.474	-1.044
3	-1.297	-2.685	-3.446	-1.009	-.756	-.805	-1.255
4	-1.458	-2.623	-2.776	-1.238	-1.172	-1.256	-1.401
5	-1.466	-2.532	-2.572	-1.235	-1.515	-1.562	-1.533
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.144	-1.792	-1.986	-1.253	-1.462	-1.216	-1.022
11	-1.064	-1.567	*000.000	-1.259	-1.553	-1.389	-1.096
12	-1.425	-1.024	-.962	-.746	-1.049	-.895	-.695
13	-.918	-.983	-.871	-.700	-.900	-.768	-.536
14	-1.295	-1.092	-.933	-.816	-.991	-.861	-.638
15	-.388	-.395	.192	.424	.360	.373	.019
16	-.522	-.118	.004	.173	.039	.023	-.108
17	-1.301	-1.185	-.839	-.541	-.946	-.665	-.521
18	-1.979	-1.832	-1.503	-1.204	-1.603	-1.696	-1.075
19	-2.850	-2.338	-2.001	-1.810	-2.211	-2.066	-1.347
20	-3.207	-2.368	-1.819	-1.867	-2.087	-2.121	-1.510
21	-3.435	-2.322	-1.760	-1.554	-1.957	-1.899	-1.364
22	-2.822	-1.536	-1.141	-1.143	-1.236	-1.257	-1.149
23	-1.555	-.409	-.334	-.248	-.221	-.370	-.850
24	-1.240	-.258	.001	-.246	-.295	-.219	-.440
25	1.041	.495	-.985	.329	1.397	1.282	.801
26	1.039	1.097	.559	.599	*000.000	.974	.801
27	.486	.871	.765	.533	.365	.370	.392
28	.226	.598	.676	.426	.311	.287	.258
29	.108	.543	.577	.561	.545	.475	.400
30	.532	1.016	.911	.939	1.055	1.074	.156
31	.648	1.014	.844	1.057	1.224	1.233	.784
32	.471	.787	.706	.872	.919	.876	.853
33	.242	.548	.499	.591	.634	.547	.040

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.519	-2.230	-3.842	-.938	.044	.085	-.710
2	-1.571	-3.316	-4.275	-1.566	-1.107	-1.380	-1.848
3	-1.795	-3.571	-4.942	-1.748	-1.525	-1.623	-1.918
4	-1.942	-3.397	-3.778	-1.835	-1.931	-1.958	-2.175
5	-1.886	-3.132	-3.518	-1.954	-2.270	-2.293	-2.253
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.400	-2.159	-2.431	-1.611	-1.923	-1.543	-1.300
11	-1.139	-1.653	*000.000	-1.377	-1.715	-1.506	-1.210
12	-1.621	-1.165	-1.073	-.895	-1.246	-1.048	-.755
13	-1.249	-1.182	-.997	-.828	-1.077	-.936	-.680
14	-1.642	-1.179	-.935	-.848	-1.044	-.905	-.674
15	-.589	-.533	.334	.556	.385	.381	-.088
16	-.830	-.178	-.010	.241	.038	-.009	-.124
17	-1.518	-1.177	-.820	-.547	-.946	-.712	-.586
18	-2.393	-1.864	-1.464	-1.271	-1.725	-1.762	-1.080
19	-3.396	-2.450	-1.842	-1.885	-2.211	-2.020	-1.369
20	-3.949	-2.613	-1.839	-2.078	-2.344	-2.228	-1.672
21	-3.852	-2.408	-1.483	-1.710	-1.990	-1.917	-1.450
22	-3.339	-1.848	-1.126	-1.178	-1.240	-1.513	-1.290
23	-1.717	-.572	-.291	-.299	-.276	-.418	-.904
24	-1.549	-.303	-.074	-.228	-.287	-.262	-.336
25	.814	-.099	-1.861	.252	1.370	1.219	.448
26	1.021	.987	.453	.860	*000.000	1.174	.824
27	.619	.954	.858	.789	.647	.542	.422
28	.285	.646	.764	.542	.430	.345	.318
29	.104	.602	.687	.682	.627	.554	.404
30	.385	1.006	.999	1.149	1.147	1.123	.133
31	.572	1.057	.993	1.248	1.307	1.332	.771
32	.432	.865	.818	1.002	1.043	.972	.938
33	.252	.575	.549	.685	.691	.588	.061

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.292	-3.583	-5.276	-1.447	-.482	-.284	-1.551
2	-2.559	-5.025	-6.032	-2.224	-1.657	-1.692	-2.371
3	-2.405	-4.583	-6.352	-2.462	-2.162	-1.905	-2.382
4	-2.542	-4.395	-4.971	-2.468	-2.211	-2.177	-2.224
5	-2.313	-3.653	-4.095	-2.366	-2.631	-2.430	-2.263
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.505	-2.289	-2.552	-1.746	-1.955	-1.525	-1.173
11	-1.238	-1.692	*000.000	-1.501	-1.678	-1.332	-.890
12	-1.598	-1.186	-1.052	-.927	-1.194	-.861	-.733
13	-1.448	-1.187	-.950	-.862	-1.031	-.829	-.653
14	-2.030	-1.233	-.968	-.934	-1.040	-.803	-.632
15	-.853	-.563	.373	.586	.435	.380	-.029
16	-1.132	-.233	.020	.216	.052	-.026	-.093
17	-2.023	-1.319	-.903	-.613	-1.031	-.673	-.526
18	-3.143	-2.165	-1.644	-1.505	-1.811	-1.656	-.933
19	-3.937	-2.529	-1.855	-2.080	-2.223	-1.457	-.716
20	-4.095	-2.488	-1.578	-2.086	-2.143	-1.601	-.913
21	-4.211	-2.447	-1.366	-1.835	-1.903	-1.426	-.857
22	-3.546	-1.814	-1.005	-1.446	-1.353	-.990	-.700
23	-1.932	-.648	-.353	-.280	-.339	-.598	-.659
24	-1.957	-.136	-.092	-.120	-.087	-.305	-.318
25	.400	-1.056	-2.849	.139	1.305	1.192	-.014
26	1.093	.880	.341	1.093	*000.000	1.292	.518
27	.781	1.052	.970	1.093	.855	.687	.370
28	.364	.793	.907	.632	.548	.392	.303
29	.024	.567	.685	.620	.578	.462	.315
30	.236	1.011	1.069	1.225	1.256	1.223	.213
31	.441	1.058	1.006	1.294	1.356	1.348	.730
32	.399	.865	.817	1.010	1.058	.940	.884
33	.226	.547	.582	.680	.693	.520	.010

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.766	-4.769	-6.765	-2.055	-1.076	-.585	-1.968
2	-3.032	-5.933	-7.153	-3.141	-2.344	-1.949	-2.267
3	-3.050	-5.886	-7.815	-3.061	-2.937	-2.389	-2.578
4	-2.904	-4.975	-5.850	-3.001	-2.713	-2.446	-2.236
5	-2.592	-4.040	-4.549	-2.884	-2.779	-2.226	-1.625
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.599	-2.332	-2.542	-1.891	-1.937	-1.362	-.814
11	-1.327	-1.754	*000.000	-1.621	-1.712	-1.198	-.696
12	-1.661	-1.262	-1.091	-.991	-1.123	-.708	-.589
13	-1.573	-1.150	-.932	-.872	-.908	-.653	-.498
14	-2.211	-1.196	-.908	-.933	-.928	-.585	-.429
15	-1.061	-.578	-.433	.560	.455	.430	.106
16	-1.335	-.238	.026	.203	.097	.012	.043
17	-2.260	-1.341	-.905	-.688	-1.041	-.577	-.349
18	-3.245	-2.032	-1.569	-1.593	-1.640	-1.200	-.726
19	-4.324	-2.529	-1.845	-2.319	-2.241	-1.348	-.750
20	-4.930	-2.924	-1.832	-2.543	-2.333	-.980	-.700
21	-4.592	-2.595	-1.548	-2.128	-2.005	-1.338	-.796
22	-3.448	-1.627	-1.064	-1.419	-1.341	-1.059	-.743
23	-2.141	-.639	-.304	-.324	-.438	-.544	-.454
24	-1.814	-.182	-.142	-.157	-.222	-.322	-.333
25	-2.017	-1.952	-3.540	.126	1.113	1.086	-.928
26	1.051	.692	.262	1.230	*000.000	1.341	.267
27	.643	1.045	.983	1.247	.995	.729	.276
28	.375	.816	.980	.672	.594	.426	.326
29	.034	.612	.790	.677	.660	.537	.375
30	.120	1.024	1.073	1.211	1.237	1.188	.101
31	.352	1.029	.936	1.310	1.378	1.350	.631
32	.362	.875	.805	1.054	1.097	.969	.793
33	.235	.553	.546	.748	.698	.514	.009

Table 17. - Continued.

(c) $C_{T,S} = 0.60$, $q_s = 22.09$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.439	-5.608	-7.375	-2.111	-1.239	-.412	-1.671
2	-3.655	-6.931	-8.022	-3.658	-2.695	-1.748	-1.737
3	-3.635	-6.602	-8.423	-3.650	-3.179	-2.189	-1.705
4	-3.655	-6.113	-7.058	-3.730	-3.319	-2.403	-1.679
5	-2.996	-4.770	-5.277	-3.362	-3.162	-2.178	-1.180
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.762	-2.595	-2.768	-2.264	-2.050	-1.218	-.605
11	-1.522	-1.946	*000.000	-1.816	-1.666	-.918	-.582
12	-1.652	-1.300	-1.139	-1.060	-1.039	-.624	-.466
13	-1.807	-1.187	-.989	-.949	-.834	-.557	-.433
14	-2.773	-1.279	-1.081	-1.031	-.938	-.565	-.695
15	-1.133	-.598	.442	.589	.435	.516	-.027
16	-1.357	-.196	-.003	.125	.085	.160	-.113
17	-2.343	-1.289	-.958	-.803	-.919	-.346	-.493
18	-3.560	-2.099	-1.821	-1.734	-1.546	-.815	-.720
19	-4.481	-2.470	-1.996	-2.434	-2.068	-.878	-.626
20	-4.361	-2.399	-1.815	-2.520	-1.808	-.895	-.898
21	-3.747	-2.119	-1.534	-1.983	-1.310	-.476	-.507
22	-3.331	-1.522	-1.311	-1.611	-1.404	-.756	-.736
23	-2.330	-.616	-.470	-.515	-.733	-.674	-.641
24	-1.537	-.250	-.230	-.039	-.259	-.422	-.461
25	-.498	-3.059	-4.861	-.014	1.050	1.005	-1.235
26	1.048	.543	.128	1.332	*000.000	1.278	.071
27	.919	1.079	1.016	1.194	1.055	.672	.158
28	.432	.876	1.010	.697	.626	.389	.226
29	.002	.649	.814	.706	.619	.464	.344
30	.104	1.074	1.117	1.213	1.219	1.134	.096
31	.318	1.042	.897	1.236	1.282	1.268	.343
32	.345	.902	.769	1.074	1.052	.857	.725
33	.277	.587	.656	.798	.717	.522	.125

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.450	-7.304	-9.141	-2.979	-1.740	-.621	-1.545
2	-4.403	-8.065	-8.720	-3.894	-2.651	-1.437	-.867
3	-4.534	-7.978	-9.780	-4.397	-3.306	-1.950	-.773
4	-4.121	-6.465	-7.305	-3.993	-3.282	-2.213	-.994
5	-3.321	-5.119	-5.243	-3.606	-2.982	-1.707	-.433
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.922	-2.663	-2.728	-2.274	-1.859	-.899	-.459
11	-1.475	-1.806	*000.000	-1.696	-1.378	-.601	-.278
12	-1.502	-1.195	-1.019	-.931	-.809	-.397	-.183
13	-2.206	-1.210	-1.069	-.908	-.705	-.462	-.396
14	-2.887	-1.269	-1.074	-.918	-.780	-.549	-.479
15	-1.056	-.546	.425	.590	.439	.478	.062
16	-1.418	-.222	.035	.167	.203	.182	-.008
17	-2.428	-1.358	-1.089	-.768	-.705	-.301	-.337
18	-3.729	-2.085	-1.903	-1.743	-1.332	-.939	-.701
19	-3.866	-2.265	-1.949	-2.148	-1.362	-.630	-.581
20	-4.020	-2.484	-2.028	-2.087	-.960	-.797	-.730
21	-3.136	-1.907	-1.604	-1.952	-1.278	-.700	-.594
22	-3.071	-1.427	-1.346	-1.643	-1.123	-.574	-.539
23	-2.129	-.749	-.614	-.593	-.554	-.668	-.745
24	-1.389	-.366	-.243	-.090	-.334	-.416	-.379
25	-.916	-3.778	-5.591	-.331	.867	.823	-1.308
26	.942	.354	-.128	1.298	*000.000	1.180	-.092
27	.911	1.041	.916	1.228	1.105	.643	.183
28	.436	.967	1.069	.788	.670	.342	.303
29	-.070	.697	.876	.755	.659	.468	.372
30	.130	1.186	1.205	1.317	1.343	1.029	.386
31	.348	1.181	.921	1.314	1.449	1.373	.675
32	.347	.900	.749	1.057	1.040	.804	.702
33	.252	.552	.597	.766	.687	.440	.128

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-4.362	-8.486	-10.204	-3.427	-1.825	-.478	-.908
2	-5.350	-9.101	-9.676	-4.812	-3.382	-1.824	-.898
3	-5.099	-8.532	-9.903	-4.780	-3.671	-2.182	-.807
4	-4.411	-6.881	-7.648	-4.535	-3.474	-2.003	-.680
5	-3.088	-5.632	-5.676	-3.953	-3.180	-1.814	-.380
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	* 0.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*0.000	*000.000	*000.000
10	-2.048	-2.849	-2.740	-2.484	-1.860	-.572	-.230
11	-1.605	-1.879	*000.000	-1.798	-1.401	-.654	-.276
12	-1.674	-1.293	-1.115	-1.056	-.758	-.407	-.267
13	-2.320	-1.248	-1.126	-.940	-.718	-.438	-.403
14	-2.261	-1.151	-1.034	-.902	-.705	-.443	-.399
15	-.988	-.543	.375	.504	.428	.469	.106
16	-1.147	-.250	0.	.159	.203	.149	.008
17	-2.184	-1.442	-.982	-.905	-.768	-.393	-.310
18	-2.865	-1.928	-1.758	-1.685	-1.327	-.794	-.553
19	-3.284	-2.255	-2.073	-2.199	-1.482	-.877	-.550
20	-2.923	-2.054	-1.902	-2.300	-1.286	-.836	-.703
21	-2.576	-1.880	-1.762	-2.016	-1.388	-.606	-.661
22	-2.284	-1.468	-1.422	-1.553	-.956	-.618	-.638
23	-1.758	-.799	-.584	-.545	-.504	-.528	-.512
24	-1.078	-.343	-.243	-.218	-.370	-.409	-.385
25	-1.702	-4.717	-6.351	-.504	.693	.689	-1.137
26	.800	.203	-.342	1.163	*000.000	1.001	-.008
27	.883	1.006	.805	1.188	1.125	.372	.204
28	.419	.992	1.089	.776	.684	.338	.389
29	-.049	.712	.868	.693	.600	.446	.445
30	.205	1.192	1.126	1.285	1.259	.921	.267
31	.345	1.131	.855	1.288	1.318	1.141	.504
32	.334	.896	.799	1.139	.960	.735	.692
33	.251	.496	.559	.723	.598	.380	.148

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-4.793	-9.297	-10.756	-4.049	-2.553	-.851	-.871
2	-5.469	-9.468	-9.740	-5.012	-3.397	-1.237	-.491
3	-5.817	-9.513	-10.560	-5.394	-3.996	-1.756	-.522
4	-4.350	-7.029	-7.301	-4.622	-3.508	-1.512	-.477
5	-3.678	-5.817	-5.539	-4.104	-3.320	-1.334	-.396
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-2.124	-3.050	-2.926	-2.680	-1.963	-.633	-.292
11	-1.574	-1.869	*000.000	-1.772	-1.239	-.506	-.243
12	-1.714	-1.283	-1.113	-1.058	-.801	-.377	-.303
13	-1.799	-1.140	-1.044	-.883	-.616	-.380	-.393
14	-2.088	-1.224	-1.031	-.890	-.610	-.411	-.463
15	-.914	-.449	.554	.580	.442	.492	.070
16	-1.052	-.193	.037	.266	.311	.060	-.022
17	-1.834	-1.432	-.911	-.836	-.600	-.317	-.336
18	-2.265	-1.974	-1.660	-1.736	-1.331	-.958	-.865
19	-2.579	-2.126	-1.941	-1.802	-1.091	-.654	-.541
20	-2.256	-1.974	-1.830	-2.077	-1.050	-.573	-.563
21	-2.128	-1.723	-1.560	-1.485	-.812	-.603	-.559
22	-1.807	-1.407	-1.403	-1.042	-.626	-.670	-.686
23	-1.322	-.741	-.519	-.645	-.528	-.482	-.508
24	-.998	-.323	-.198	-.338	-.436	-.426	-.392
25	-2.008	-5.127	-6.649	-1.160	.474	.150	-.838
26	.306	.091	-.508	1.108	*000.000	.588	-.077
27	.478	1.146	.913	1.332	1.224	.311	.211
28	.199	.958	1.095	.772	.666	.310	.300
29	-.118	.621	.795	.653	.514	.389	.405
30	.169	1.168	.917	1.185	1.119	.712	.271
31	.328	1.319	.803	1.364	1.335	1.114	.380
32	.299	.841	.711	.991	.900	.684	.505
33	.266	.546	.646	.741	.540	.418	.178

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-5.989	-10.412	-10.930	-4.529	-2.719	-1.455	-.741
2	-6.534	-11.680	-11.493	-6.069	-4.081	-1.737	-.663
3	-5.969	-10.423	-10.759	-5.766	-4.252	-1.722	-.442
4	-4.531	-8.130	-8.269	-5.262	-3.906	-1.611	-.320
5	-3.733	-6.499	-6.093	-4.559	-3.492	-1.260	-.312
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.961	-3.140	-3.064	-2.649	-1.902	-.554	-.295
11	-1.400	-1.885	*000.000	-1.739	-1.168	-.344	-.208
12	-1.761	-1.388	-1.203	-1.028	-.785	-.351	-.284
13	-1.631	-1.154	-1.073	-.917	-.663	-.387	-.448
14	-1.648	-1.113	-1.039	-.893	-.618	-.352	-.361
15	-.958	-.403	.429	.500	.404	.449	.119
16	-.901	-.206	-.044	.165	.241	.079	.040
17	-1.426	-1.283	-.936	-.731	-.583	-.269	-.323
18	-2.089	-1.796	-1.609	-1.379	-.842	-.636	-.566
19	-2.306	-2.096	-1.949	-1.483	-.906	-.643	-.522
20	-1.981	-1.760	-1.668	-1.411	-.688	-.500	-.509
21	-1.790	-1.723	-1.743	-1.562	-.994	-.653	-.864
22	-1.529	-1.258	-1.325	-.954	-.629	-.558	-.657
23	-1.219	-.684	-.641	-.643	-.638	-.636	-.814
24	-.844	-.333	-.245	-.415	-.485	-.483	-.463
25	-4.064	-6.537	-7.399	-1.306	.365	-.479	-.850
26	-.461	-.173	-.409	1.084	*000.000	.246	-.135
27	.123	.928	.851	1.260	1.246	.358	.200
28	.184	.914	1.184	.902	.771	.440	.399
29	-.044	.512	.767	.629	.518	.415	.411
30	.249	1.164	.809	1.233	1.068	.801	.280
31	.302	1.114	.793	1.380	1.331	.949	.367
32	.305	.722	.767	1.054	.896	.651	.459
33	.223	.295	.649	.718	.593	.459	.256

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.331	-3.843	-3.687	-4.747	-2.984	-1.957	-.834
2	-3.326	-3.244	-1.663	-5.344	-3.810	-1.701	-.240
3	-2.547	-2.189	-1.591	-5.749	-4.757	-2.417	-.486
4	-1.677	-1.196	-1.234	-5.000	-3.886	-1.767	-.375
5	-1.472	-1.157	-1.159	-4.218	-3.254	-1.100	-.252
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.210	-1.187	-1.068	-2.442	-1.839	-.547	-.313
11	-1.275	-1.260	*000.000	-1.713	-1.192	-.475	-.330
12	-1.169	-1.078	-1.102	-.951	-.765	-.313	-.216
13	-.922	-.927	-.852	-.922	-.615	-.439	-.329
14	-.742	-.803	-1.006	-.937	-.611	-.414	-.541
15	-.615	-.349	.329	.466	.465	.395	.046
16	-.487	-.084	-.031	.092	.153	.072	.013
17	-.838	-.864	-.766	-.748	-.740	-.422	-.483
18	-1.067	-1.160	-1.002	-1.391	-.946	-.673	-.636
19	-1.058	-1.142	-1.144	-1.271	-.855	-.557	-.534
20	-1.155	-1.001	-1.109	-1.560	-.932	-.577	-.578
21	-1.000	-1.008	-1.056	-1.254	-.759	-.558	-.633
22	-.764	-.850	-.891	-.931	-.695	-.631	-.719
23	-.709	-.780	-.814	-.585	-.479	-.554	-.571
24	-.660	-.645	-.608	-.509	-.528	-.542	-.534
25	-2.516	-2.507	-2.696	-1.665	.180	-.887	-1.043
26	-.342	.306	.390	.907	*000.000	.167	-.305
27	.039	.835	1.173	1.287	1.346	.347	.089
28	.105	.584	1.019	.796	.708	.376	.371
29	.009	.438	.657	.568	.531	.400	.376
30	.330	1.042	.686	1.134	1.060	.752	.230
31	.273	.965	.721	1.282	1.293	.858	.418
32	.263	.635	.693	.970	.810	.602	.525
33	.212	.222	.463	.576	.504	.374	.138

Table 17. - Continued.

(d) $C_{T,S} = 0.30$, $q_s = 19.00$

$\alpha = 5°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.791	.495	-.037	.015	.975	.861	.650
2	.123	-.335	-.520	-.109	.312	.118	-.058
3	-.199	-.724	-1.081	-.193	-.655	-.310	-.414
4	-.601	-1.136	-1.277	-.983	-.798	-.845	-.914
5	-.869	-1.421	-1.585	-1.040	-1.013	-1.067	-1.078
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.895	-1.333	-1.718	-1.339	-1.312	-1.022	-.918
11	-.955	-1.374	*000.000	-1.281	-1.496	-1.352	-1.208
12	-1.497	-1.056	-1.060	-.813	-1.151	-1.011	-.818
13	-.804	-1.002	-.949	-.717	-.930	-.855	-.573
14	-1.024	-1.042	-.932	-.858	-1.042	-.898	-.688
15	-.096	.220	.012	.259	.242	.194	.149
16	-.271	-.107	-.039	.037	-.019	-.085	-.225
17	-1.056	-1.233	-.896	-.584	-1.068	-.839	-.728
18	-1.622	-1.791	-1.511	-1.306	-1.708	-1.727	-1.203
19	-2.269	-2.151	-1.822	-1.884	-2.220	-1.987	-1.275
20	-2.771	-2.402	-2.009	-2.056	-2.245	-2.222	-1.550
21	-2.569	-2.033	-1.573	-1.549	-1.998	-1.805	-1.299
22	-2.602	-1.500	-1.215	-1.072	-1.313	-1.359	-1.073
23	-1.905	-.425	-.324	-.299	-.393	-.447	-.839
24	-1.073	-.276	-.200	-.248	-.254	-.243	-.457
25	.939	1.060	.591	.614	1.249	1.007	.973
26	.492	.734	.594	.651	*000.000	.505	.526
27	-.031	.247	.210	.163	-.014	.038	.155
28	-.095	.105	.123	.164	.025	.049	.124
29	.039	.299	.287	.334	.321	.342	.260
30	.647	1.022	.907	.620	.887	.901	.767
31	.731	1.024	.862	.752	1.063	1.037	.760
32	.454	.738	.574	.632	.793	.687	.765
33	.231	.528	.426	.458	.523	.472	.262

$\alpha = 10°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.391	-.174	-.955	-.396	.466	.368	.140
2	-.569	-1.452	-1.808	-1.482	-.752	-.902	-.926
3	-.838	-1.884	-2.542	-1.710	-1.224	-1.221	-1.315
4	-1.293	-2.204	-2.518	-1.939	-1.694	-1.766	-1.816
5	-1.325	-2.111	-2.481	-1.899	-1.886	-1.898	-1.846
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.213	-1.755	-2.108	-1.790	-1.753	-1.389	-1.274
11	-1.191	-1.650	*000.000	-1.597	-1.804	-1.621	-1.429
12	-1.756	-1.216	-1.191	-.986	-1.318	-1.136	-.898
13	-1.044	-1.167	-1.030	-.881	-1.133	-.962	-.726
14	-1.378	-1.200	-1.023	-.961	-1.123	-.954	-.765
15	-.318	.144	.144	.349	.352	.343	-.094
16	-.608	-.146	-.119	.073	-.015	-.057	-.090
17	-1.188	-1.168	-.844	-.584	-1.005	-.712	-.616
18	-1.995	-1.926	-1.613	-1.296	-1.761	-1.779	-1.105
19	-2.734	-2.352	-1.993	-1.997	-2.294	-2.027	-1.341
20	-3.134	-2.449	-1.850	-2.045	-2.223	-2.058	-1.452
21	-3.343	-2.319	-1.658	-1.716	-2.025	-1.859	-1.328
22	-3.102	-1.664	-1.992	-1.183	-1.267	-1.407	-1.176
23	-1.600	-.354	-.421	-.261	-.308	-.406	-.743
24	-1.355	-.223	-.134	-.254	-.236	-.315	-.491
25	.950	.760	-.012	.411	1.391	1.133	.956
26	.848	1.076	.661	.768	*000.000	1.079	.976
27	.282	.601	.455	.434	.394	.481	.531
28	.048	.300	.330	.350	.291	.317	.311
29	.029	.404	.348	.468	.490	.496	.424
30	.525	1.036	.923	.941	1.091	1.061	.386
31	.673	1.095	.692	1.137	1.266	1.234	.900
32	.428	.756	.625	.818	.909	.844	.886
33	.218	.553	.463	.599	.634	.584	.278

$\alpha = 15°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-.357	-1.435	-2.275	-1.773	-.525	-.584	-.852
2	-1.454	-2.884	-3.402	-2.869	-1.936	-2.070	-2.105
3	-1.798	-3.183	-4.154	-3.054	-2.568	-2.569	-2.634
4	-1.887	-3.169	-3.495	-3.184	-2.900	-2.820	-2.849
5	-1.985	-3.132	-3.463	-3.041	-2.907	-2.928	-2.903
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.448	-2.102	-2.464	-2.267	-2.348	-1.961	-1.840
11	-1.224	-1.732	*000.000	-1.771	-2.097	-1.871	-1.704
12	-1.770	-1.218	-1.173	-1.073	-1.405	-1.188	-1.011
13	-1.186	-1.181	-.995	-.927	-1.194	-1.009	-.752
14	-1.662	-1.192	-.953	-.974	-1.190	-1.035	-.837
15	-.551	.073	.302	.435	.353	.388	-.235
16	-.832	-.184	-.050	.135	-.024	-.008	-.204
17	-1.625	-1.269	-.828	-.677	-1.109	-.774	-.709
18	-2.471	-1.966	-1.480	-1.490	-1.780	-1.750	-1.239
19	-3.153	-2.247	-1.694	-2.053	-2.250	-2.042	-1.437
20	-3.797	-2.469	-1.748	-2.247	-2.343	-2.262	-1.505
21	-3.722	-2.063	-1.342	-1.867	-2.015	-1.746	-1.279
22	-3.260	-1.581	-.999	-1.257	-1.253	-1.349	-1.041
23	-1.948	-.605	-.314	-.324	-.382	-.475	-.771
24	-1.746	-.349	-.231	-.245	-.321	-.277	-.570
25	.822	.452	-.547	-.022	1.269	.918	.670
26	.975	1.089	.594	.810	*000.000	1.213	1.069
27	.491	.845	.710	.760	.784	.790	.659
28	.196	.498	.570	.489	.457	.477	.405
29	.083	.515	.595	.542	.591	.595	.489
30	.330	1.004	.937	1.156	1.171	1.118	.273
31	.517	.991	.858	1.192	1.185	1.146	.826
32	.426	.784	.659	.888	.912	.855	.839
33	.218	.521	.430	.634	.628	.573	.093

$\alpha = 20°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-1.362	-3.281	-4.774	-3.153	-1.922	-2.139	-2.454
2	-2.287	-4.332	-5.137	-4.221	-3.284	-3.491	-3.553
3	-2.914	-5.214	-7.016	-4.912	-4.365	-4.305	-4.416
4	-2.623	-4.503	-5.077	-4.438	-4.093	-4.089	-4.052
5	-2.286	-3.635	-4.243	-3.701	-3.731	-3.474	-3.280
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.691	-2.540	-2.925	-2.663	-2.749	-2.404	-2.138
11	-1.394	-1.986	*000.000	-1.966	-2.365	-2.152	-1.947
12	-1.984	-1.360	-1.278	-1.163	-1.572	-1.389	-1.066
13	-1.622	-1.374	-1.140	-1.042	-1.359	-1.180	-.900
14	-2.131	-1.249	-.988	-.926	-1.144	-.997	-.868
15	-.921	-.082	.340	.511	.342	.347	-.131
16	-1.100	-.256	-.061	.218	-.050	-.125	-.176
17	-1.994	-1.311	-.866	-.735	-1.144	-.939	-.758
18	-3.041	-2.125	-1.637	-1.594	-2.047	-2.017	-1.301
19	-3.691	-2.442	-1.840	-1.997	-2.340	-2.021	-1.308
20	-4.042	-2.494	-1.717	-2.128	-2.406	-2.133	-1.414
21	-3.867	-2.326	-1.380	-1.756	-2.010	-1.696	-1.145
22	-3.395	-1.750	-.980	-1.154	-1.208	-1.425	-1.184
23	-1.922	-.465	-.289	-.280	-.306	-.513	-.823
24	-1.670	-.485	-.245	-.165	-.238	-.316	-.601
25	.317	-.680	-2.005	-.617	.788	.266	-.055
26	.962	.900	.479	.982	*000.000	1.198	.955
27	.722	.999	.954	1.019	1.076	1.018	.863
28	.354	.752	.867	.828	.785	.705	.635
29	.105	.555	.659	.692	.685	.610	.533
30	.238	.991	1.011	1.273	1.163	1.102	.236
31	.496	1.065	1.028	1.337	1.309	1.267	.932
32	.374	.767	.773	1.012	.947	.840	.847
33	.219	.544	.597	.788	.727	.578	.065

Table 17.- Concluded.

(d) $C_{T,s} = 0.30$, $q_s = 19.00$

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.534	-5.440	-6.952	-4.697	-3.562	-3.445	-4.149
2	-3.350	-6.118	-6.966	-5.613	-4.836	-4.793	-4.901
3	-3.663	-6.439	-8.421	-6.093	-5.494	-5.103	-5.091
4	-3.377	-5.583	-6.229	-5.408	-4.994	-4.796	-4.659
5	-2.979	-4.843	-5.548	-4.823	-4.844	-4.354	-3.682
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.955	-2.911	-3.369	-3.045	-3.066	-2.572	-1.932
11	-1.573	-2.161	*000.000	-2.116	-2.584	-2.215	-1.747
12	-2.126	-1.447	-1.389	-1.195	-1.494	-1.044	-.851
13	-2.142	-1.400	-1.169	-1.058	-1.261	-1.051	-1.016
14	-3.086	-1.401	-1.120	-1.047	-1.060	-1.090	-.757
15	-1.123	-.022	.555	.620	.478	.411	-.018
16	-1.512	-.280	.022	.127	-.011	-.178	-.004
17	-2.474	-1.429	-.927	-.793	-1.207	-.851	-.561
18	-3.752	-2.177	-1.649	-1.710	-2.005	-1.891	-1.054
19	-4.471	-2.729	-1.973	-2.233	-1.889	-1.186	-.806
20	-4.475	-2.763	-1.822	-2.197	-2.324	-1.880	-1.248
21	-4.115	-2.563	-1.520	-1.702	-1.900	-1.453	-1.021
22	-3.411	-1.839	-1.091	-1.120	-.959	-.758	-.602
23	-1.901	-.544	-.347	-.284	-.313	-.571	-.641
24	-1.813	-.283	-.131	.024	.252	-.561	-.467
25	-.385	-1.995	-3.325	-1.291	.054	-.346	-.935
26	.867	.853	.339	1.050	*000.000	1.174	.636
27	.868	1.063	1.020	1.358	1.308	1.188	.705
28	.452	.809	.960	.898	.842	.756	.592
29	.143	.686	.812	.809	.809	.733	.626
30	.149	1.074	1.059	1.351	1.273	1.217	.150
31	.369	1.104	1.024	1.404	1.360	1.275	.747
32	.392	.910	.937	1.184	1.138	.994	.941
33	.246	.550	.681	.768	.697	.551	.210

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.470	-7.015	-8.614	-5.141	-3.822	-2.915	-3.534
2	-4.527	-7.885	-8.785	-6.676	-5.570	-4.560	-4.006
3	-4.124	-7.126	-9.023	-6.272	-5.649	-4.476	-3.584
4	-4.099	-6.606	-7.568	-6.014	-5.505	-4.607	-3.518
5	-2.853	-4.541	-5.061	-4.336	-4.029	-3.298	-2.235
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-2.071	-3.016	-3.384	-3.047	-2.871	-2.001	-.985
11	-1.611	-2.119	*000.000	-2.063	-2.041	-1.267	-1.104
12	-2.131	-1.527	-1.407	-1.175	-1.245	-.927	-.733
13	-2.629	-1.412	-1.162	-.916	-.990	-.821	-.686
14	-3.491	-1.389	-1.094	-.936	-1.078	-.611	-.558
15	-1.339	-.067	.533	.631	.461	.519	.023
16	-1.833	-.379	-.032	.165	-.097	.098	-.130
17	-3.101	-1.547	-1.081	-.905	-1.106	-.557	-.651
18	-4.253	-2.368	-1.899	-1.804	-1.776	-1.204	-1.113
19	-4.595	-2.855	-2.167	-2.176	-1.815	-1.065	-.958
20	-4.398	-2.800	-1.997	-2.113	-1.885	-.912	-.897
21	-3.819	-2.480	-1.684	-1.522	-1.343	-.665	-.671
22	-3.339	-1.926	-1.334	-1.194	-1.257	-.781	-.739
23	-2.166	-.614	-.446	-.403	-.723	-.652	-.612
24	-1.923	-.236	-.167	-.100	-.447	-.547	-.611
25	-1.243	-3.539	-4.903	-1.781	-.410	-.291	-1.593
26	.737	.329	-.036	1.128	*000.000	1.290	.296
27	.796	.928	.828	1.399	1.275	1.229	.714
28	.437	.891	1.005	1.013	.928	.835	.695
29	.030	.679	.848	.848	.750	.729	.631
30	-.036	1.097	1.110	1.466	1.311	1.278	.326
31	.241	1.130	1.036	1.493	1.349	1.376	.829
32	.258	.852	.782	1.105	1.025	.936	.936
33	.203	.551	.641	.786	.677	.560	.185

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-4.707	-8.891	-10.532	-6.488	-5.105	-3.557	-3.751
2	-5.186	-9.017	-10.067	-7.356	-5.880	-4.373	-3.101
3	-5.371	-8.973	-10.473	-7.417	-6.395	-4.792	-3.261
4	-4.913	-7.565	-8.672	-6.961	-6.046	-4.704	-2.759
5	-3.549	-5.669	-6.165	-5.267	-4.709	-3.662	-1.857
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-2.264	-3.408	-3.747	-3.351	-2.721	-1.473	-.582
11	-1.491	-2.050	*000.000	-1.879	-1.561	-.991	-.628
12	-2.197	-1.572	-1.459	-1.145	-1.113	-.743	-.628
13	-3.189	-1.458	-1.248	-.969	-1.063	-.630	-.619
14	-3.345	-1.469	-1.237	-.974	-1.036	-.644	-.809
15	-1.153	-.144	.454	.536	.476	.471	.099
16	-1.741	-.376	-.052	.087	.162	.195	.004
17	-2.774	-1.549	-1.109	-.937	-1.027	-.543	-.629
18	-3.436	-2.261	-1.858	-1.544	-1.541	-1.124	-1.016
19	-3.929	-2.668	-2.178	-1.870	-1.276	-.963	-.935
20	-3.333	-2.518	-2.050	-1.381	-1.155	-.834	-.824
21	-2.691	-2.200	-1.755	-1.406	-1.230	-.614	-.674
22	-2.792	-1.600	-1.453	-1.036	-.838	-.671	-.644
23	-2.041	-.675	-.589	-.534	-.644	-.642	-.603
24	-1.713	-.472	-.187	-.424	-.596	-.663	-.704
25	-2.031	-4.898	-6.346	-2.331	-.834	-.403	-2.014
26	.439	-.168	-.449	.787	*000.000	1.122	-.055
27	.777	.764	.733	1.259	1.272	1.113	.587
28	.490	.855	1.007	.917	.908	.702	.546
29	.088	.683	.878	.800	.791	.705	.622
30	.027	1.012	.990	1.264	1.244	1.185	.277
31	.296	1.036	.895	1.345	1.322	1.249	.730
32	.326	.837	.821	1.031	1.013	.864	.729
33	.262	.487	.619	.680	.655	.516	.179

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.933	-5.208	-3.854	-5.589	-4.596	-3.175	-2.969
2	-4.462	-5.175	-2.492	-7.130	-5.729	-3.883	-1.943
3	-4.101	-4.369	-1.637	-6.530	-5.843	-4.098	-1.669
4	-3.288	-2.359	-1.234	-5.679	-5.420	-4.019	-1.149
5	-2.293	-1.428	-1.097	-4.556	-4.557	-3.361	-1.019
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.133	-1.213	-1.066	-2.264	-2.050	-1.163	-.654
11	-1.025	-1.360	*000.000	-1.238	-1.124	-.565	-.453
12	-1.215	-1.298	-1.351	-.810	-.971	-.637	-.548
13	-.751	-1.024	-.922	-.843	-.877	-.608	-.654
14	-.850	-1.153	-1.008	-.958	-.866	-.679	-.737
15	-.238	-.069	.501	.590	.478	.441	.236
16	-.290	-.101	.077	.173	.124	.066	-.084
17	-.769	-1.054	-.729	-.856	-.801	-.609	-.560
18	-1.143	-1.376	-1.211	-1.489	-1.186	-.890	-.992
19	-1.135	-1.245	-1.198	-1.708	-1.368	-.751	-.817
20	-1.125	-1.134	-1.132	-1.642	-1.089	-.967	-.989
21	-.993	-.955	-.881	-.982	-1.027	-.811	-.677
22	-.978	-.922	-.891	-.894	-.810	-.703	-.740
23	-.878	-.926	-.751	-.776	-.804	-.730	-.682
24	-.770	-.800	-.618	-.681	-.703	-.741	-.750
25	-1.754	-2.933	-2.673	-2.251	-.937	-.563	-2.185
26	.601	.280	.372	.951	*000.000	1.184	.073
27	.805	.845	1.000	1.329	1.335	1.032	.538
28	.505	.829	1.001	.917	.908	.748	.627
29	.191	.659	.836	.742	.726	.636	.615
30	.395	1.042	1.098	1.335	1.279	1.216	.365
31	.519	1.066	.922	1.371	1.335	1.244	.793
32	.472	.843	.851	1.074	1.020	.836	.711
33	.358	.480	.568	.674	.599	.445	.209

Table 18.- Pressure coefficients for wing with propeller rotation up at tip, basic leading edge, $\delta_f = 60°$.

(a) $C_{T,S} = 0.90$, $q_s = 20.19$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.843	.605	.210	.062	.939	.985	.061
2	.196	-.042	-.293	.753	1.089	1.012	.072
3	-.066	-.503	-.776	.861	1.008	.844	-.035
4	-.340	-.764	-.817	.775	.663	.476	-.221
5	-.572	-.965	-1.032	.519	.256	.036	-.251
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.438	-.870	-1.123	-.045	-.240	-.177	-.138
11	-.391	-.894	*000.000	-.390	-.608	-.443	-.272
12	-1.029	-.657	-.737	-.269	-.571	-.353	-.146
13	-.395	-.880	-.745	-.393	-.543	-.383	-.166
14	-.512	-.766	-.816	-.517	-.584	-.392	-.203
15	-.176	.459	-.176	.076	.111	.084	-.036
16	-1.319	-1.894	-1.742	-1.014	-1.253	-1.191	-.577
17	-1.742	-2.882	-2.701	-1.382	-1.734	-1.643	-1.039
18	-2.033	-2.980	-2.622	-1.683	-2.284	-2.032	-1.321
19	-2.120	-2.957	-2.719	-1.489	-1.848	-1.647	-1.139
20	-1.847	-2.351	-1.974	-.814	-.953	-1.022	-.882
21	-1.860	-1.832	-1.453	-.383	-.423	-.571	-.640
22	-1.061	-1.229	-.495	-.335	-.297	-.282	-.334
23	-.944	-.275	-.301	-.319	-.283	-.230	-.193
24	-.447	-.095	-.358	-.260	-.191	-.183	-.217
25	1.079	1.134	.834	-.978	.205	-.065	.141
26	.682	.975	.920	-.602	*000.000	-.545	.242
27	.109	.458	.576	-.377	-.670	-.632	.101
28	.045	.339	.400	.160	-.121	-.136	.105
29	.204	.514	.448	.430	.448	.302	.225
30	.349	.853	.657	.433	.309	.489	.174
31	.590	1.148	.970	.372	.592	.568	.154
32	.818	1.009	.913	.462	1.043	1.143	.789
33	.642	.820	.756	.377	.777	.707	.607

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.732	.360	-.205	.272	1.092	1.113	-.059
2	-.007	-.581	-.817	.722	1.133	.992	-.232
3	-.328	-.799	-1.125	.684	.928	.839	-.189
4	-.605	-1.142	-1.220	.692	.647	.436	-.256
5	-.698	-1.259	-1.276	.405	.180	-.007	-.314
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.556	-1.052	-1.320	-.194	-.365	-.289	-.296
11	-.467	-1.044	*000.000	-.458	-.719	-.571	-.348
12	-1.109	-.689	-.783	-.322	-.616	-.431	-.197
13	-.474	-.742	-.790	-.473	-.533	-.440	-.258
14	-.597	-.799	-.789	-.598	-.657	-.476	-.243
15	-.251	.302	-.107	.016	.005	.079	.076
16	-1.365	-1.777	-1.600	-1.107	-1.505	-1.273	-.648
17	-1.945	-2.682	-2.274	-1.713	-2.176	-1.696	-1.025
18	-2.370	-3.013	-2.742	-1.938	-2.163	-2.216	-1.428
19	-2.317	-2.829	-2.563	-1.793	-2.043	-1.995	-1.269
20	-2.020	-2.051	-1.541	-1.013	-1.047	-1.164	-1.037
21	-1.844	-1.424	-.795	-.487	-.624	-.725	-.741
22	-1.545	-.838	-.347	-.320	-.295	-.302	-.469
23	-.897	-.375	-.239	-.274	-.205	-.246	-.342
24	-.434	-.279	-.250	-.296	-.214	-.213	-.263
25	1.132	1.099	.639	-.516	.414	.200	.025
26	.822	1.047	.936	-.335	*000.000	-.388	.273
27	.171	.636	.739	-.163	-.533	-.604	.051
28	.077	.407	.516	.259	-.042	-.142	.011
29	.161	.546	.513	.426	.467	.445	.197
30	.319	.848	.636	.430	.374	.518	.128
31	.801	1.074	.961	.418	.874	.693	.246
32	.775	.985	.921	.474	.997	1.064	.906
33	.592	.768	.742	.480	.744	.723	.594

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.582	-.005	-.723	.315	1.077	1.099	-.147
2	-.198	-.872	-1.302	.591	.986	.917	-.190
3	-.464	-1.242	-1.805	.683	.778	.679	-.296
4	-.718	-1.378	-1.524	.404	.401	.270	-.429
5	-.791	-1.429	-1.567	.340	-.038	-.159	-.399
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.553	-1.112	-1.372	-.257	-.471	-.317	-.308
11	-.464	-.966	*000.000	-.469	-.725	-.542	-.351
12	-1.139	-.716	-.766	-.365	-.654	-.391	-.250
13	-.549	-.729	-.758	-.463	-.631	-.425	-.220
14	-.737	-.782	-.792	-.589	-.740	-.499	-.331
15	-.366	.146	-.086	-.052	-.011	.087	.094
16	-1.578	-1.785	-1.631	-1.211	-1.596	-1.387	-.705
17	-2.083	-2.570	-2.297	-1.606	-2.117	-1.591	-.877
18	-2.368	-2.655	-2.387	-1.765	-2.428	-2.323	-1.379
19	-2.571	-2.648	-2.428	-1.967	-2.355	-1.964	-1.224
20	-2.256	-2.008	-1.605	-1.301	-1.438	-1.344	-1.140
21	-1.973	-1.316	-.860	-.555	-.485	-.905	-.886
22	-1.621	-.589	-.340	-.390	-.356	-.435	-.731
23	-.687	-.376	-.308	-.376	-.275	-.306	-.452
24	-.667	-.478	-.274	-.258	-.195	-.377	-.287
25	1.158	.945	.344	-.186	.620	.464	.014
26	.859	1.017	.840	-.134	*000.000	-.129	.168
27	.305	.653	.755	-.104	-.386	-.464	-.001
28	.141	.448	.563	.247	-.026	-.104	.005
29	.184	.565	.553	.371	.461	.503	.249
30	.251	.785	.644	.391	.424	.540	.061
31	.700	.995	.934	.446	.865	.778	.245
32	.776	.965	.919	.540	1.041	1.117	.943
33	.548	.713	.764	.488	.746	.720	.482

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.372	-.398	-1.334	.361	1.119	1.089	-.241
2	-.513	-1.429	-1.975	.420	.890	.790	-.493
3	-.709	-1.557	-2.314	.448	.625	.541	-.510
4	-.942	-1.700	-1.915	.419	.243	.086	-.507
5	-.994	-1.741	-1.891	-.070	-.176	-.320	-.564
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.664	-1.297	-1.542	-.299	-.548	-.409	-.285
11	-.578	-1.112	*000.000	-.574	-.823	-.618	-.384
12	-1.186	-.751	-.796	-.349	-.671	-.441	-.228
13	-.691	-.797	-.792	-.518	-.679	-.450	-.237
14	-.938	-.858	-.877	-.631	-.756	-.528	-.342
15	-.496	.043	-.132	-.046	-.047	.077	.080
16	-1.892	-1.865	-1.703	-1.365	-1.778	-1.436	-.709
17	-2.616	-2.679	-2.295	-1.721	-2.341	-1.803	-1.076
18	-2.913	-2.855	-2.650	-1.982	-2.274	-2.290	-1.437
19	-3.046	-2.637	-2.452	-2.015	-2.350	-2.353	-1.309
20	-2.767	-1.968	-1.747	-1.530	-1.525	-1.739	-1.294
21	-2.396	-1.354	-.919	-.882	-.880	-.671	-.853
22	-1.751	-.551	-.411	-.364	-.265	-.473	-.826
23	-.811	-.441	-.314	-.247	-.258	-.295	-.341
24	-.834	-.444	-.363	-.217	-.233	-.301	-.261
25	1.089	.758	-.081	.011	.779	.500	-.038
26	.965	1.054	.835	.058	*000.000	-.043	.173
27	.356	.788	.849	.054	-.241	-.429	.010
28	.152	.484	.661	.314	.017	-.111	-.010
29	.163	.538	.579	.465	.482	.470	.255
30	.213	.783	.685	.445	.536	.508	.094
31	.636	.997	.936	.661	.973	.735	.328
32	.699	.935	.899	.826	1.044	1.103	.920
33	.537	.685	.717	.702	.751	.719	.505

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.148	-.886	-2.099	.509	1.148	1.139	-.457
2	-.738	-1.710	-2.361	.330	.718	.669	-.634
3	-.957	-1.946	-2.941	.526	.456	.433	-.562
4	-1.156	-2.025	-2.323	.385	.104	0.	-.546
5	-1.108	-1.980	-2.228	-.055	-.314	-.447	-.549
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.731	-1.371	-1.640	-.409	-.627	-.464	-.300
11	-.669	-1.158	*000.000	-.570	-.885	-.651	-.441
12	-1.336	-.872	-.890	-.361	-.755	-.464	-.250
13	-.850	-.864	-.833	-.508	-.691	-.447	-.260
14	-1.120	-.932	-.900	-.609	-.756	-.500	-.296
15	-.723	-.043	-.186	.082	-.042	-.022	.067
16	-2.144	-2.115	-1.980	-1.262	-1.637	-1.371	-.710
17	-3.091	-2.873	-2.554	-1.861	-2.333	-1.808	-1.249
18	-3.593	-3.143	-2.960	-2.225	-2.725	-2.464	-1.553
19	-3.525	-3.149	-3.177	-1.940	-2.020	-2.168	-1.258
20	-2.917	-2.208	-2.100	-1.443	-1.674	-1.518	-1.371
21	-2.429	-1.360	-1.308	-.710	-.541	-1.235	-1.044
22	-1.640	-.752	-1.059	-.367	-.333	-.436	-.792
23	-.898	-.484	-.554	-.293	-.241	-.377	-.577
24	-.841	-.517	-.311	-.264	-.234	-.372	-.248
25	1.044	.570	-.415	.185	.939	.686	-.072
26	.982	1.039	.806	.189	*000.000	.216	.242
27	.417	.791	.874	.171	-.168	-.345	.006
28	.186	.531	.689	.247	.063	-.120	-.008
29	.100	.562	.626	.376	.524	.474	.302
30	.120	.764	.693	.582	.560	.559	.131
31	.538	.955	.921	.756	1.008	.829	.318
32	.603	.891	.888	.873	1.027	1.088	.944
33	.444	.683	.765	.740	.742	.717	.479

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.108	-1.259	-2.637	.571	1.100	1.045	-.366
2	-1.146	-2.201	-3.150	.538	.587	.496	-.596
3	-1.308	-2.437	-3.632	.381	.312	.227	-.747
4	-1.513	-2.405	-2.853	.174	-.081	-.171	-.711
5	-1.338	-2.097	-2.373	-.054	-.453	-.554	-.654
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.936	-1.555	-1.849	-.379	-.700	-.511	-.383
11	-.783	-1.246	*000.000	-.561	-.927	-.689	-.458
12	-1.360	-.931	-.925	-.379	-.761	-.494	-.316
13	-1.095	-.970	-.898	-.501	-.692	-.477	-.294
14	-1.451	-1.111	-.966	-.650	-.779	-.578	-.338
15	-.850	-.097	-.261	.042	-.024	.049	-.002
16	-2.676	-2.522	-2.160	-1.386	-1.771	-1.629	-.813
17	-3.583	-3.573	-2.756	-1.742	-2.305	-1.886	-1.123
18	-3.987	-4.039	-3.344	-2.137	-2.517	-2.498	-1.544
19	-4.003	-4.011	-3.098	-2.175	-2.394	-2.251	-1.384
20	-3.659	-3.613	-2.515	-1.392	-1.531	-1.938	-1.399
21	-2.726	-2.632	-1.539	-.592	-.913	-1.311	-1.079
22	-2.033	-1.811	-.949	-.241	-.388	-.958	-.968
23	-1.135	-.638	-.321	-.241	-.253	-.383	-.665
24	-1.025	-.585	-.026	-.188	-.229	-.242	-.244
25	.958	.342	-.989	.552	1.114	.856	-.119
26	1.009	1.033	.661	.502	*000.000	.274	.061
27	.479	.916	.941	.231	-.040	-.327	-.026
28	.128	.592	.718	.359	.102	-.116	-.105
29	.007	.590	.634	.659	.527	.450	.249
30	.012	.781	.687	.654	.654	.551	.032
31	.422	.994	.971	.931	1.085	.904	.345
32	.508	.942	.949	1.029	1.050	1.065	.784
33	.400	.699	.758	.786	.789	.685	.440

Table 18. - Continued.

(a) $C_{T,S} = 0.90$, $q_S = 20.19$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.400	-1.694	-3.214	.776	1.064	1.161	-.547
2	-1.407	-2.541	-3.449	.344	.463	.409	-.687
3	-1.730	-2.914	-4.277	.301	.121	.225	-.773
4	-1.771	-2.793	-3.342	.025	-.302	-.378	-.892
5	-1.553	-2.403	-2.728	-.239	-.657	-.644	-.730
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.970	-1.584	-1.881	-.545	-.749	-.481	-.355
11	-.820	-1.276	*000.000	-.687	-.929	-.646	-.345
12	-1.331	-.985	-.942	-.458	-.784	-.500	-.271
13	-1.308	-1.082	-.927	-.604	-.766	-.498	-.339
14	-1.564	-1.193	-1.001	-.664	-.781	-.496	-.262
15	-.990	-1.161	-.247	.045	-.051	.075	-.016
16	-2.592	-2.535	-2.045	-1.440	-1.847	-1.409	-.721
17	-3.513	-3.616	-2.447	-1.844	-2.495	-1.864	-1.007
18	-4.327	-4.044	-2.814	-2.383	-2.805	-2.561	-1.293
19	-3.732	-4.021	-2.521	-2.205	-2.829	-2.182	-1.214
20	-3.402	-3.383	-1.910	-1.505	-1.786	-1.589	-1.087
21	-2.907	-2.725	-1.472	-.801	-1.154	-1.178	-.843
22	-2.083	-1.811	-.967	-.312	-.500	-.866	-.883
23	-1.188	-.802	-.340	-.223	-.346	-.412	-.513
24	-1.019	-.048	-.107	-.248	-.276	-.236	-.184
25	.927	.203	-1.310	.620	1.251	.992	-.303
26	1.116	1.049	.715	.629	*000.000	.406	.004
27	.524	.951	.939	.566	.055	-.277	-.101
28	.207	.807	.719	.321	.101	-.097	-.076
29	.047	.570	.629	.584	.554	.404	.250
30	.009	.765	.748	.666	.659	.624	.087
31	.418	.975	.978	.921	1.059	.958	.232
32	.533	.926	.860	1.043	1.061	1.085	.812
33	.393	.705	.833	.815	.833	.779	.544

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.810	-2.172	-3.850	.661	.960	1.047	-.778
2	-1.938	-3.144	-4.112	.129	.284	.373	-.868
3	-2.120	-3.333	-4.920	.074	-.089	.093	-.865
4	-2.085	-3.053	-3.727	-.089	-.496	-.348	-.678
5	-1.893	-2.744	-3.041	-.465	-.889	-.761	-.685
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.142	-1.717	-1.884	-.747	-.883	-.509	-.288
11	-.991	-1.431	*000.000	-.887	-1.062	-.588	-.313
12	-1.243	-.985	-.838	-.461	-.763	-.393	-.280
13	-1.351	-1.111	-.870	-.631	-.750	-.407	-.251
14	-1.601	-1.227	-.917	-.784	-.880	-.503	-.405
15	-1.073	-.176	-.219	-.058	-.136	.061	-.091
16	-2.828	-2.535	-1.740	-1.625	-2.128	-1.179	-.657
17	-3.773	-3.830	-2.340	-2.272	-2.666	-1.571	-1.042
18	-4.206	-4.006	-2.379	-2.295	-2.920	-1.964	-1.410
19	-4.443	-4.341	-2.542	-2.445	-2.814	-1.832	-1.188
20	-3.526	-3.473	-1.849	-1.979	-2.086	-1.455	-.740
21	-2.450	-2.707	-1.260	-.913	-1.458	-1.486	-1.051
22	-2.086	-1.861	-.848	-.485	-.591	-.815	-.674
23	-1.247	-.875	-.267	-.263	-.452	-.560	-.635
24	-1.148	-.096	-.255	-.257	-.305	-.140	-.126
25	.709	-.157	-1.585	.761	1.317	.958	-.313
26	1.025	.933	.615	.725	*000.000	.338	.057
27	.577	.922	.967	.327	.119	-.223	-.035
28	.205	.575	.742	.307	.146	-.106	-.087
29	-.019	.550	.678	.592	.531	.406	.112
30	-.028	.747	.782	.696	.657	.627	.090
31	.307	.930	1.007	.859	1.064	1.014	.230
32	.442	.884	.925	1.000	1.041	1.072	.764
33	.360	.633	.763	.755	.800	.689	.339

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.246	-2.345	-3.963	.498	.850	.904	-.885
2	-2.303	-3.378	-4.291	.016	.141	.372	-.795
3	-2.488	-3.488	-4.953	-.108	-.271	.008	-.762
4	-2.440	-3.338	-4.049	-.497	-.661	-.406	-.663
5	-2.125	-2.934	-3.326	-.693	-1.034	-.844	-.687
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.324	-1.858	-2.114	-.882	-.975	-.534	-.322
11	-1.099	-1.440	*000.000	-.913	-1.032	-.533	-.347
12	-1.296	-1.060	-.916	-.504	-.792	-.437	-.386
13	-1.417	-1.082	-.846	-.686	-.678	-.356	-.288
14	-1.640	-1.191	-.959	-.861	-.875	-.433	-.408
15	-1.123	-.202	-.290	-.083	-.158	.149	-.135
16	-2.456	-2.435	-1.645	-1.815	-2.068	-1.112	-.739
17	-3.677	-3.882	-2.118	-2.629	-2.780	-1.251	-.667
18	-3.905	-3.831	-2.249	-2.848	-3.052	-1.242	-.990
19	-3.854	-3.882	-2.117	-2.977	-2.798	-1.275	-1.094
20	-3.041	-3.448	-1.667	-1.958	-2.326	-1.267	-1.038
21	-2.711	-2.511	-1.153	-1.573	-1.876	-.994	-.800
22	-1.947	-1.585	-.872	-.872	-.902	-.802	-.943
23	-1.410	-.626	-.398	-.333	-.328	-.437	-.660
24	-1.232	-.155	-.308	-.438	-.076	-.210	-.298
25	.370	-.402	-1.857	.818	1.361	.880	-.593
26	1.040	.890	.494	.801	*000.000	.433	-.134
27	.593	.927	.939	.450	.192	-.244	-.103
28	.141	.632	.732	.316	.140	-.129	-.087
29	-.106	.532	.611	.605	.509	.340	.020
30	-.152	.732	.723	.654	.675	.648	-.013
31	.229	.913	.933	1.035	1.092	.910	.052
32	.374	.878	.762	1.052	1.033	1.045	.529
33	.296	.600	.578	.770	.810	.625	.279

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.834	-2.771	-4.525	.557	.904	.975	-.609
2	-2.758	-3.644	-4.587	-.144	.096	.239	-.875
3	-3.008	-3.944	-5.256	-.325	-.290	-.084	-.714
4	-2.827	-3.477	-4.048	-.384	-.666	-.423	-.541
5	-2.396	-3.050	-3.314	-.904	-1.073	-.604	-.413
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.547	-1.977	-2.086	-.992	-.990	-.516	-.298
11	-1.240	-1.512	*000.000	-.944	-1.046	-.524	-.208
12	-1.282	-1.109	-.895	-.497	-.766	-.439	-.248
13	-1.576	-1.191	-.887	-.724	-.645	-.377	-.238
14	-1.848	-1.313	-.921	-.871	-.743	-.371	-.227
15	-1.153	-.212	-.227	-.037	-.095	.163	-.073
16	-2.908	-2.707	-1.796	-2.108	-1.924	-.776	-.350
17	-3.775	-3.885	-2.148	-2.910	-2.344	-.984	-.734
18	-4.324	-4.317	-2.492	-3.436	-2.950	-1.446	-.997
19	-3.897	-3.953	-2.012	-3.383	-2.938	-1.634	-.770
20	-2.791	-3.073	-1.648	-2.528	-1.498	-.665	-.615
21	-2.759	-2.925	-1.250	-1.918	-1.606	-.588	-.431
22	-2.148	-1.614	-.936	-1.108	-1.180	-.652	-.573
23	-1.362	-.478	-.362	-.342	-.251	-.288	-.328
24	-1.191	-.219	-.366	-.224	-.158	-.239	-.184
25	.161	-.556	-1.960	.911	1.413	.902	-.320
26	1.014	.847	.490	.870	*000.000	.281	-.145
27	.647	.977	.967	.497	.208	-.270	-.010
28	.172	.621	.780	.350	.126	-.128	.021
29	-.183	.538	.622	.651	.556	.325	.094
30	-.219	.720	.775	.807	.689	.652	-.006
31	.204	.963	.937	1.140	1.098	.974	.086
32	.328	.920	.703	1.155	1.084	1.030	.417
33	.243	.597	.514	.841	.789	.529	.267

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.409	-3.032	-4.630	.562	.891	.735	-.657
2	-3.312	-3.959	-4.743	-.244	.068	.148	-.676
3	-3.462	-4.068	-5.449	-.233	-.326	.028	-.575
4	-3.114	-3.692	-4.281	-.804	-.736	-.388	-.571
5	-2.622	-3.128	-3.287	-.862	-1.113	-.533	-.428
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.607	-2.061	-2.048	-1.093	-.973	-.289	-.094
11	-1.346	-1.647	*000.000	-1.076	-1.023	-.362	-.240
12	-1.267	-1.195	-.924	-.599	-.634	-.267	-.191
13	-1.625	-1.213	-.899	-.726	-.571	-.171	-.170
14	-1.760	-1.326	-.925	-.854	-.606	-.266	-.300
15	-1.255	-.294	-.276	-.172	.007	.209	-.084
16	-2.768	-2.606	-1.756	-1.927	-1.490	-.818	-.584
17	-3.776	-3.928	-2.263	-2.844	-1.988	-.786	-.656
18	-4.351	-4.055	-2.294	-3.299	-2.791	-.899	-.615
19	-3.939	-4.096	-2.312	-3.678	-2.907	-.983	-.406
20	-3.223	-3.172	-1.816	-2.811	-1.824	-.779	-.678
21	-2.366	-2.252	-1.306	-2.027	-1.484	-.794	-.638
22	-1.878	-1.338	-.843	-1.139	-.732	-.516	-.453
23	-1.246	-.483	-.413	-.322	-.348	-.358	-.378
24	-1.126	-.292	-.354	-.041	-.050	-.171	-.125
25	-.214	-.707	-2.193	1.036	1.427	.647	-.327
26	.677	.862	.595	.888	*000.000	.273	-.219
27	.615	.924	1.042	.443	.189	-.273	-.077
28	.156	.568	.784	.272	.109	-.153	.017
29	-.178	.483	.670	.586	.517	.285	.044
30	-.189	.757	.788	.775	.653	.687	.047
31	.196	.948	.980	1.170	1.154	.868	.015
32	.332	.897	.708	1.072	1.103	1.028	.514
33	.261	.577	.445	.792	.822	.568	.213

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.809	-3.323	-4.594	.448	.840	.695	-.426
2	-3.806	-4.148	-4.789	-.310	-.013	.403	-.319
3	-3.749	-4.328	-5.457	-.608	-.407	.093	-.267
4	-3.573	-3.980	-4.462	-.939	-.774	-.188	-.218
5	-2.826	-3.280	-3.305	-.910	-1.025	-.380	-.127
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.687	-2.149	-1.988	-1.135	-.890	-.167	-.122
11	-1.371	-1.643	*000.000	-1.011	-.823	-.249	-.175
12	-1.206	-1.214	-.878	-.624	-.503	-.164	-.157
13	-1.455	-1.207	-.899	-.655	-.462	-.164	-.098
14	-1.510	-1.256	-.952	-.735	-.412	-.184	-.118
15	-1.147	-.271	-.311	-.065	-.015	.182	-.011
16	-2.586	-2.536	-1.858	-1.754	-1.174	-.623	-.617
17	-3.075	-3.277	-2.191	-2.303	-1.139	-.458	-.379
18	-3.028	-3.425	-2.495	-2.561	-1.154	-.960	-.573
19	-2.994	-3.194	-2.261	-2.915	-1.712	-.675	-.556
20	-2.399	-2.474	-1.779	-1.857	-1.037	-.727	-.746
21	-2.003	-1.736	-1.285	-1.449	-.775	-.299	-.383
22	-1.462	-1.038	-.792	-1.020	-.665	-.437	-.499
23	-1.320	-.514	-.452	-.278	-.130	-.159	-.149
24	-.825	-.362	-.441	-.089	-.106	-.169	-.177
25	-.654	-.942	-2.184	.972	1.410	.323	-.243
26	.782	.754	.549	.805	*000.000	.322	-.052
27	.546	.907	.915	.352	.141	-.307	.042
28	.103	.557	.744	.369	.087	-.049	-.005
29	-.227	.417	.599	.500	.437	.224	.036
30	-.284	.689	.710	.605	.640	.660	.011
31	.242	.901	.843	1.032	1.058	.917	.021
32	.265	.824	.641	1.029	1.041	.982	.363
33	.171	.547	.550	.793	.775	.613	.221

Table 18. - Continued.

(a) $C_{T,s} = 0.90$, $q_s = 20.19$

$\alpha = 65°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.303	-3.560	-4.612	.537	.918	.518	-.139
2	-4.376	-4.678	-4.950	-.269	.184	.314	-.099
3	-4.070	-4.504	-5.348	-.260	-.204	.070	-.147
4	-3.804	-4.227	-4.447	-.913	-.539	.076	-.009
5	-3.108	-3.560	-3.444	-1.111	-.885	-.342	-.117
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.719	-2.185	-1.902	-1.078	-.715	-.141	-.061
11	-1.329	-1.675	*000.000	-.993	-.642	-.175	-.166
12	-1.165	-1.228	-.904	-.568	-.483	-.145	.030
13	-1.336	-1.116	-.877	-.563	-.330	-.214	-.096
14	-1.558	-1.196	-.982	-.713	-.462	-.257	-.217
15	-.998	-.277	-.193	.103	.287	.192	.038
16	-2.135	-2.140	-1.684	-1.121	-.689	-.519	-.186
17	-3.293	-3.034	-2.376	-2.389	-1.402	-.700	-.620
18	-3.189	-3.001	-2.557	-2.587	-1.258	-1.044	-.539
19	-2.519	-2.682	-2.285	-2.270	-1.220	-.791	-.642
20	-2.341	-2.000	-1.802	-2.487	-1.662	-.550	-.581
21	-1.816	-1.441	-1.182	-1.567	-1.336	-.527	-.325
22	-1.352	-.959	-.901	-.759	-.502	-.371	-.326
23	-1.195	-.462	-.374	-.188	-.178	-.185	-.210
24	-.680	-.374	-.377	-.093	-.099	-.129	-.059
25	-1.246	-1.019	-2.076	.927	1.347	.252	-.011
26	.515	.679	.474	.907	*000.000	.116	-.015
27	.431	.809	.863	.362	.020	-.286	.039
28	.035	.562	.736	.275	.028	-.067	.081
29	-.287	.405	.579	.536	.406	.180	.064
30	-.556	.692	.744	.711	.590	.586	.026
31	.107	.915	.763	1.074	1.093	.830	.028
32	.229	.842	.616	1.120	1.051	.909	.538
33	.138	.497	.535	.789	.799	.540	.131

$\alpha = 70°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.777	-3.964	-4.772	.498	1.030	.261	-.291
2	-4.510	-4.840	-4.809	-.202	.446	-.211	-.387
3	-4.395	-4.967	-5.516	-.586	.122	.016	-.221
4	-3.920	-4.355	-4.333	-.945	-.520	-.232	-.236
5	-3.043	-3.660	-3.280	-1.139	-.453	-.009	-.236
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.821	-2.340	-1.892	-1.098	-.517	-.049	-.033
11	-1.313	-1.642	*000.000	-.943	-.550	-.290	-.050
12	-1.205	-1.104	-.871	-.628	-.360	-.248	-.052
13	-1.267	-1.022	-.786	-.435	-.263	-.183	-.102
14	-1.324	-1.013	-.777	-.540	-.316	-.228	-.242
15	-1.156	-.296	-.233	-.023	.131	.087	-.206
16	-1.967	-1.988	-1.480	-.934	-.863	-.447	-.261
17	-2.259	-2.476	-2.084	-1.482	-1.153	-.440	-.340
18	-2.159	-2.432	-2.264	-1.331	-.694	-.590	-.472
19	-2.469	-2.161	-1.943	-1.865	-1.328	-.614	-.571
20	-2.134	-1.802	-1.783	-1.479	-.997	-.402	-.347
21	-1.726	-1.433	-1.433	-1.039	-.803	-.682	-.417
22	-1.331	-.889	-.655	-.565	-.420	-.417	-.396
23	-.908	-.406	-.422	-.216	-.172	-.262	-.373
24	-.623	-.352	-.327	-.030	-.104	-.118	-.106
25	-1.866	-1.250	-2.170	1.178	1.241	.089	-.107
26	.302	.666	.459	.864	*000.000	-.030	-.027
27	.291	.823	.888	.343	.002	-.339	-.056
28	.041	.505	.733	.142	-.041	-.170	-.036
29	-.328	.395	.566	.564	.416	.171	.016
30	-.591	.683	.609	.682	.519	.411	-.153
31	.119	.918	.728	1.109	1.057	.657	-.038
32	.221	.783	.617	1.105	1.064	.921	.115
33	.118	.378	.538	.841	.755	.446	.047

$\alpha = 75°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-4.268	-4.238	-4.725	.839	1.163	-.026	-.056
2	-4.711	-5.170	-4.744	-.137	.690	-.036	.021
3	-4.588	-5.020	-5.207	-.453	.078	-.014	-.118
4	-3.773	-4.376	-4.038	-.781	-.085	-.104	-.031
5	-3.101	-3.793	-3.094	-1.144	-.306	-.183	-.034
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.545	-2.254	-1.675	-1.057	-.370	-.147	-.084
11	-1.251	-1.588	*000.000	-.871	-.476	-.098	0.
12	-1.069	-1.089	-.732	-.589	-.368	-.167	-.109
13	-1.268	-.961	-.784	-.617	-.378	-.108	-.076
14	-1.318	-.922	-.716	-.456	-.332	-.226	-.187
15	-1.137	-.280	-.104	.153	.180	.021	-.155
16	-1.654	-1.742	-1.365	-1.087	-.800	-.591	-.478
17	-2.196	-2.070	-1.705	-1.563	-1.218	-.450	-.296
18	-2.490	-2.092	-2.041	-1.051	-.572	-.668	-.575
19	-2.437	-2.057	-2.121	-1.679	-.750	-.512	-.192
20	-1.606	-1.638	-1.761	-1.430	-.776	-.439	-.377
21	-1.437	-1.069	-1.065	-.854	-.709	-.458	-.310
22	-1.047	-.789	-.787	-.487	-.322	-.307	-.324
23	-.638	-.311	-.277	-.278	-.191	-.270	-.228
24	-.553	-.298	-.236	-.249	-.083	-.196	-.272
25	-2.017	-1.559	-2.146	1.023	1.056	-.655	-.202
26	-.009	.609	.422	1.003	*000.000	-.122	-.069
27	.169	.790	.801	.151	-.255	-.089	-.062
28	.012	.489	.660	.158	-.094	-.119	-.027
29	-.284	.346	.468	.425	.298	.024	.048
30	-.563	.674	.594	.620	.436	.278	-.096
31	.051	.858	.666	.987	1.010	.589	-.063
32	.168	.637	.587	1.067	.981	.738	-.101
33	.101	.338	.460	.795	.753	.381	-.110

$\alpha = 80°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-4.848	-4.348	-4.603	.931	1.174	-.069	-.045
2	-4.644	-5.092	-4.376	.051	.888	.014	-.023
3	-4.213	-5.230	-5.102	-.336	.535	.015	-.133
4	-3.741	-4.748	-4.111	-.737	.226	-.132	-.027
5	-3.017	-3.920	-3.077	-1.119	-.016	-.109	-.042
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.659	-2.287	-1.678	-1.036	-.284	-.068	-.048
11	-1.236	-1.480	*000.000	-.797	-.305	-.085	-.041
12	-1.069	-1.055	-.711	-.501	-.262	-.087	-.147
13	-1.495	-.965	-.653	-.428	-.219	-.150	-.287
14	-1.065	-.772	-.595	-.338	-.198	-.173	-.217
15	-1.059	-.313	-.078	.114	.177	.149	-.244
16	-1.613	-1.581	-1.192	-.667	-.551	-.402	-.309
17	-2.253	-1.952	-1.704	-1.306	-.805	-.572	-.419
18	-2.171	-1.899	-1.928	-.983	-.396	-.407	-.271
19	-2.463	-2.162	-2.349	-1.736	-.757	-.694	-.312
20	-1.347	-1.434	-1.392	-1.066	-.623	-.390	-.402
21	-1.156	-1.023	-.957	-.989	-.531	-.350	-.240
22	-1.042	-.728	-.509	-.430	-.250	-.318	-.373
23	-.687	-.290	-.337	-.193	-.130	-.127	-.255
24	-.491	-.294	-.239	-.208	-.140	-.156	-.189
25	-2.878	-1.574	-2.054	1.014	.840	.087	.021
26	-.213	.627	.477	.723	*000.000	-.063	-.130
27	-.016	.727	.784	.082	-.335	-.169	-.077
28	-.117	.429	.675	-.040	-.174	.005	-.040
29	-.313	.309	.423	.402	.127	-.095	-.096
30	-.470	.628	.540	.617	.492	.466	-.119
31	-.033	.833	.622	.793	.956	.317	-.208
32	.129	.696	.594	1.089	1.051	.686	-.154
33	-.013	.279	.447	.761	.782	.420	-.276

Table 18. - Continued.

(b) $C_{T,S} = 0.80$, $q_S = 19.96$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.875	.459	.049	.542	1.147	1.115	.000
2	.172	-.290	-.538	.561	1.037	.948	.028
3	-.114	-.727	-.991	.668	.889	.778	-.222
4	-.491	-1.077	-1.044	.672	.402	.297	-.305
5	-.643	-1.186	-1.212	.145	-.008	-.142	-.395
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.559	-.989	-1.210	-.369	-.387	-.281	-.229
11	-.540	-.977	*000.000	-.575	-.741	-.591	-.388
12	-1.186	-.780	-.845	-.292	-.705	-.513	-.285
13	-.584	-.799	-.800	-.535	-.667	-.521	-.313
14	-.707	-.837	-.811	-.640	-.709	-.522	-.318
15	-.247	-.026	-.135	-.039	-.044	.081	.005
16	-1.436	-1.796	-1.599	-1.210	-1.653	-1.417	-.731
17	-2.068	-2.650	-2.186	-1.808	-2.268	-1.763	-1.215
18	-2.399	-2.800	-2.617	-2.008	-2.319	-2.266	-1.542
19	-2.650	-2.950	-2.458	-2.040	-2.359	-2.333	-1.319
20	-2.327	-2.273	-1.628	-1.261	-1.454	-1.482	-1.221
21	-2.097	-1.415	-.743	-.510	-.705	-.483	-.665
22	-1.714	-.576	-.314	-.337	-.323	-.280	-.556
23	-.961	-.372	-.302	-.322	-.274	-.273	-.321
24	-.655	-.382	-.235	-.238	-.260	-.340	-.350
25	1.041	1.087	.571	-.207	.538	.416	.248
26	.656	.989	.783	.195	*000.000	-.187	.188
27	.128	.535	.616	.143	-.347	-.383	.003
28	.060	.349	.479	.218	-.018	.047	.087
29	.190	.521	.446	.403	.470	.514	.326
30	.338	.812	.576	.400	.459	.548	-.131
31	.745	1.053	.902	.511	.964	.629	.505
32	.827	1.083	.927	.610	1.112	1.087	1.089
33	.625	.810	.721	.490	.787	.736	.394

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.675	.058	-.673	.333	1.196	1.188	.210
2	-.144	-.916	-1.315	.491	.764	.636	-.064
3	-.384	-1.140	-1.668	.379	.547	.415	-.328
4	-.706	-1.401	-1.898	.281	.186	.030	-.416
5	-.897	-1.566	-1.847	-.064	-.235	-.337	-.508
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.693	-1.231	-1.471	-.497	-.607	-.485	-.310
11	-.650	-1.157	*000.000	-.715	-.920	-.779	-.610
12	-1.279	-.857	-.914	-.384	-.784	-.593	-.381
13	-.644	-.842	-.853	-.596	-.730	-.552	-.371
14	-.835	-.899	-.882	-.700	-.794	-.583	-.386
15	-.410	-.221	-.181	-.017	-.107	-.066	-.137
16	-1.707	-1.939	-1.773	-1.253	-1.708	-1.517	-.898
17	-2.515	-2.867	-2.384	-1.844	-2.043	-1.989	-1.264
18	-2.843	-3.026	-2.848	-2.149	-2.837	-2.466	-1.693
19	-2.741	-2.747	-2.482	-2.095	-2.655	-2.426	-1.319
20	-2.663	-2.261	-1.849	-1.376	-1.787	-1.603	-1.296
21	-2.295	-1.291	-.660	-.405	-.617	-.974	-.956
22	-1.837	-.502	-.548	-.355	-.358	-.544	-.836
23	-.878	-.414	-.357	-.255	-.262	-.373	-.405
24	-.792	-.466	-.286	-.191	-.246	-.272	-.285
25	1.135	1.020	.368	-.254	.873	.748	.316
26	.827	1.037	.818	.049	*000.000	.113	.178
27	.297	.703	.702	.115	-.171	-.268	.118
28	.140	.448	.560	.160	.085	.021	.116
29	.191	.578	.518	.343	.547	.578	.474
30	.267	.813	.609	.381	.534	.633	.011
31	.721	1.067	.933	.655	1.005	.721	.670
32	.767	1.013	.831	.695	1.095	1.095	1.124
33	.587	.744	.670	.691	.812	.757	.506

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.384	-.614	-1.790	.378	1.115	1.120	-.005
2	-.477	-1.456	-2.185	.204	.626	.532	-.535
3	-.734	-1.818	-2.530	.163	.320	.281	-.623
4	-1.009	-1.960	-2.158	-.155	-.040	-.188	-.652
5	-1.166	-1.954	-2.077	-.452	-.537	-.663	-.869
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.834	-1.392	-1.839	-.587	-.742	-.557	-.483
11	-.736	-1.256	*000.000	-.727	-1.008	-.796	-.584
12	-1.318	-.917	-.937	-.388	-.868	-.593	-.354
13	-.842	-1.015	-.958	-.604	-.750	-.543	-.278
14	-1.101	-1.109	-1.012	-.675	-.814	-.603	-.433
15	-.607	-.325	-.296	.048	-.052	.070	.010
16	-2.074	-2.315	-2.083	-1.378	-1.754	-1.587	-.813
17	-3.150	-3.469	-3.021	-2.116	-2.247	-2.110	-1.197
18	-3.544	-3.813	-3.073	-2.422	-2.748	-2.756	-1.695
19	-3.464	-3.068	-2.952	-2.288	-2.726	-2.571	-1.414
20	-3.100	-2.662	-2.633	-1.679	-1.951	-1.494	-1.234
21	-2.348	-1.269	-1.299	-.871	-.786	-1.051	-.986
22	-1.605	-.741	-.855	-.381	-.366	-.517	-.791
23	-.989	-.524	-.672	-.288	-.292	-.311	-.456
24	-.698	-.617	-.151	-.253	-.229	-.303	-.333
25	1.074	.869	.526	.231	1.082	.943	.287
26	.898	1.027	.888	.475	*000.000	.358	.284
27	.414	.831	.848	.472	.030	-.111	.104
28	.174	.557	.678	.384	.170	.059	.110
29	.144	.565	.575	.557	.547	.500	.397
30	.194	.797	.656	.600	.625	.629	-.056
31	.814	1.021	.955	.835	1.085	1.030	.640
32	.848	.935	.837	.931	1.048	1.058	.960
33	.488	.705	.653	.788	.790	.747	.448

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.027	-1.501	-3.119	.377	1.025	1.054	-.247
2	-.990	-2.500	-3.659	-.180	.281	.269	-.861
3	-1.210	-2.656	-3.766	-.244	-.144	-.051	-.845
4	-1.458	-2.666	-3.087	-.330	-.539	-.660	-1.134
5	-1.430	-2.439	-2.671	-.519	-.902	-.993	-1.090
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.979	-1.630	-1.877	-.724	-1.003	-.797	-.590
11	-.879	-1.411	*000.000	-.875	-1.153	-.933	-.657
12	-1.433	-1.029	-.967	-.605	-.847	-.643	-.421
13	-1.048	-1.089	-.931	-.649	-.806	-.619	-.369
14	-1.356	-1.218	-.996	-.763	-.856	-.642	-.386
15	-.936	-.429	-.242	.045	-.088	-.008	.051
16	-2.693	-2.685	-2.107	-1.510	-1.918	-1.656	-.886
17	-3.781	-3.974	-2.855	-2.348	-2.587	-2.233	-1.241
18	-4.382	-4.251	-3.042	-2.638	-2.955	-2.983	-1.447
19	-4.363	-4.286	-3.059	-2.522	-2.630	-2.890	-1.586
20	-4.023	-3.792	-2.867	-1.663	-1.735	-2.203	-1.393
21	-3.221	-2.253	-1.617	-1.241	-.865	-1.358	-1.118
22	-2.298	-1.729	-.830	-.333	-.391	-.496	-.811
23	-1.339	-.727	-.222	-.412	-.265	-.389	-.388
24	-1.262	-.524	-.232	-.321	-.257	-.402	-.380
25	.969	.355	-1.122	.534	1.280	1.083	.080
26	1.027	1.077	.670	.548	*000.000	.636	.435
27	.482	.914	.934	.652	.222	.013	.107
28	.226	.638	.782	.490	.263	.106	.151
29	.109	.608	.883	.475	.619	.557	.431
30	.058	.401	.776	.736	.716	.680	.000
31	.448	.979	.964	1.040	1.133	1.048	.497
32	.557	.921	.876	.979	1.057	1.057	.993
33	.488	.772	.752	.786	.865	.753	.422

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.365	-2.215	-4.044	.179	.740	.822	-.503
2	-1.355	-3.143	-4.267	-.422	-.098	-.053	-1.300
3	-1.698	-3.488	-5.045	-.428	-.579	-.446	-1.420
4	-1.886	-3.070	-3.862	-.656	-.924	-.959	-1.347
5	-1.598	-2.743	-3.065	-.772	-1.175	-1.214	-1.345
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.173	-1.834	-2.092	-.967	-1.137	-.907	-.774
11	-.980	-1.480	*000.000	-.960	-1.244	-1.021	-.751
12	-1.413	-1.064	-.951	-.628	-.901	-.670	-.402
13	-1.202	-1.165	-.953	-.703	-.853	-.685	-.422
14	-1.547	-1.231	-.959	-.742	-.901	-.685	-.503
15	-1.047	-.498	-.275	0.	-.104	-.022	-.018
16	-2.719	-2.654	-1.840	-1.679	-2.020	-1.883	-1.119
17	-3.942	-4.066	-2.626	-2.331	-2.606	-2.399	-1.555
18	-4.658	-4.327	-2.744	-2.664	-2.891	-2.968	-1.713
19	-4.589	-4.298	-2.610	-2.608	-2.736	-3.061	-1.736
20	-3.764	-3.587	-1.991	-2.003	-1.772	-1.992	-1.517
21	-2.833	-2.617	-1.346	-.743	-.858	-1.431	-1.241
22	-2.186	-1.844	-.952	-.421	-.346	-.698	-.934
23	-1.496	-.822	-.283	-.308	-.268	-.399	-.546
24	-1.467	-.892	-.241	-.315	-.268	-.317	-.359
25	.894	-.175	-1.649	.831	1.308	1.178	-.109
26	1.101	1.055	.598	.842	*000.000	.776	.105
27	.606	1.026	.976	.802	.367	.059	-.218
28	.261	.717	.862	.676	.334	.120	.063
29	.047	.640	.702	.581	.643	.529	.347
30	.023	.797	.772	.755	.770	.717	.110
31	.385	1.042	1.036	1.124	1.191	1.130	.382
32	.485	.956	.871	1.049	1.079	1.059	.918
33	.405	.759	.765	.884	.858	.728	.301

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.725	-2.708	-4.608	.041	.514	.685	-1.193
2	-1.767	-3.735	-4.744	-.564	-.413	-.290	-1.508
3	-2.014	-3.859	-5.398	-.717	-.874	-.724	-1.681
4	-2.161	-3.675	-4.438	-1.101	-1.241	-1.194	-1.735
5	-2.002	-3.233	-3.615	-1.155	-1.580	-1.420	-1.693
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.277	-2.016	-2.255	-1.181	-1.353	-1.009	-.838
11	-1.040	-1.490	*000.000	-1.082	-1.292	-.940	-.648
12	-1.444	-1.130	-.940	-.761	-.960	-.609	-.393
13	-1.284	-1.150	-.876	-.783	-.808	-.572	-.428
14	-1.734	-1.335	-1.014	-.900	-.992	-.685	-.504
15	-1.126	-.539	-.215	-.068	-.135	.034	-.011
16	-2.713	-2.660	-1.807	-1.886	-2.251	-1.804	-.976
17	-3.923	-4.013	-2.406	-2.511	-2.889	-2.300	-1.361
18	-4.193	-3.924	-2.190	-2.764	-3.187	-2.839	-1.609
19	-3.793	-4.189	-2.166	-2.962	-2.871	-2.869	-1.389
20	-3.384	-3.591	-1.579	-1.861	-2.115	-2.027	-1.562
21	-2.529	-2.594	-1.206	-1.081	-1.191	-1.522	-1.114
22	-2.241	-1.788	-.901	-.495	-.550	-1.090	-.978
23	-1.691	-.893	-.357	-.345	-.414	-.472	-.541
24	-1.530	-.897	-.279	-.349	-.415	-.277	-.204
25	.710	-.648	-2.257	.702	1.401	1.231	-.609
26	1.138	.962	.514	.986	*000.000	.882	-.054
27	.685	1.042	1.043	.770	.561	.140	.028
28	.292	.741	.905	.554	.393	.161	.042
29	.163	.634	.763	.676	.661	.548	.348
30	-.067	.791	.935	.792	.794	.740	.118
31	.337	.981	1.012	1.055	1.195	1.150	.239
32	.475	.945	.898	1.062	1.141	1.116	.813
33	.422	.746	.678	.811	.886	.787	.405

Table 18. - Continued.

(b) $C_{T,S} = 0.80$, $q_s = 19.96$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.169	-3.648	-5.616	-.142	.316	.736	-1.207
2	-2.179	-4.404	-5.478	-1.075	-.747	-.353	-1.489
3	-2.674	-4.856	-6.448	-1.349	-.941	-1.791	-1.383
4	-2.515	-4.122	-5.041	-1.479	-1.559	-1.235	-1.138
5	-2.096	-3.292	-3.713	-1.388	-1.699	-1.413	-1.138
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.379	-2.037	-2.154	-1.357	-1.252	-.625	-.412
11	-1.190	-1.590	*000.000	-1.212	-1.321	-.806	-.442
12	-1.457	-1.196	-1.061	-.838	-1.030	-.585	-.436
13	-1.402	-1.182	-.963	-.847	-.899	-.517	-.438
14	-1.766	-1.279	-.956	-.922	-.936	-.508	-.510
15	-1.146	-.517	-.214	-.027	-.209	.132	-.147
16	-2.588	-2.612	-1.877	-1.846	-2.342	-1.589	-.899
17	-3.569	-3.722	-2.135	-2.955	-2.993	-1.653	-.908
18	-3.944	-3.906	-2.233	-3.342	-3.397	-1.970	-1.010
19	-3.508	-4.022	-2.062	-3.100	-2.921	-1.906	-1.139
20	-3.137	-3.320	-1.697	-2.682	-2.484	-1.233	-1.111
21	-2.352	-2.387	-1.267	-1.317	-1.650	-1.229	-.766
22	-2.016	-1.368	-.741	-.457	-.974	-.880	-.667
23	-1.752	-.560	-.352	-.358	-.474	-.550	-.610
24	-1.452	-.239	-.331	-.371	-.195	-.265	-.332
25	.493	-1.085	-2.805	.787	1.380	1.137	-.650
26	1.046	.822	.463	1.100	*000.000	.897	.022
27	.684	1.036	.993	1.044	.559	.099	-.125
28	.247	.785	.923	.553	.402	.116	.047
29	.027	.699	.811	.762	.691	.503	.143
30	-.146	.818	.829	.842	.788	.759	.046
31	.299	1.019	1.009	1.150	1.193	1.114	.224
32	.440	.958	.806	1.110	1.136	1.114	.826
33	.384	.720	.550	.902	.889	.698	.286

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.800	-4.304	-6.160	-.387	.112	.639	-1.303
2	-2.876	-5.271	-6.349	-1.289	-.851	-.369	-1.426
3	-2.924	-5.025	-6.395	-1.309	-1.227	-.476	-1.044
4	-3.022	-4.792	-5.624	-1.848	-1.692	-1.278	-1.357
5	-2.589	-4.013	-4.344	-1.840	-1.868	-1.248	-.891
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.555	-2.648	-2.350	-1.517	-1.408	-.678	-.268
11	-1.351	-1.670	*000.000	-1.285	-1.306	-.683	-.465
12	-1.408	-1.212	-1.028	-.836	-.871	-.447	-.217
13	-1.540	-1.212	-.967	-.888	-.853	-.589	-.308
14	-1.786	-1.285	-.992	-1.004	-.928	-.439	-.427
15	-1.305	-.548	-.275	-.110	-.081	.075	-.150
16	-2.705	-2.591	-1.849	-2.358	-2.265	-1.257	-.893
17	-3.772	-3.855	-2.392	-3.214	-2.675	-1.105	-.838
18	-3.828	-4.112	-2.613	-3.804	-3.102	-1.342	-.825
19	-3.447	-3.840	-2.244	-3.556	-3.179	-1.473	-.876
20	-2.564	-2.816	-1.661	-3.061	-2.570	-1.376	-.930
21	-2.287	-2.126	-1.370	-2.187	-1.851	-.680	-.494
22	-2.046	-1.227	-.784	-.968	-1.059	-.563	-.521
23	-1.498	-.485	-.454	-.436	-.444	-.446	-.396
24	-1.408	-.388	-.398	-.485	-.212	-.404	-.365
25	.158	-1.668	-3.362	.849	1.427	1.216	-.751
26	1.036	.718	.313	1.174	*000.000	.909	-.029
27	.737	1.035	.964	1.148	.639	.168	.105
28	.272	.774	.927	.543	.405	.139	.156
29	-.056	.638	.774	.736	.658	.464	.239
30	-.238	.799	.806	.885	.794	.705	.038
31	.235	1.010	.951	1.192	1.199	1.102	.178
32	.418	.952	.828	1.156	1.153	1.070	.598
33	.323	.713	.565	.905	.881	.685	.278

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.338	-5.058	-6.725	-.516	-.011	.664	-1.317
2	-3.393	-5.752	-6.587	-1.677	-1.027	-.300	-.938
3	-3.486	-5.564	-6.704	-1.784	-1.477	-.711	-.913
4	-3.315	-5.041	-5.711	-2.122	-1.799	-1.122	-1.076
5	-2.750	-4.057	-4.156	-1.999	-1.859	-1.114	-.892
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.707	-2.338	-2.271	-1.887	-1.404	-.598	-.239
11	-1.439	-1.764	*000.000	-1.386	-1.176	-.503	-.334
12	-1.444	-1.292	-1.017	-.891	-.782	-.337	-.260
13	-1.671	-1.275	-1.036	-.918	-.753	-.375	-.181
14	-1.851	-1.351	-1.097	-1.098	-.881	-.464	-.286
15	-1.279	-.549	-.266	-.184	-.009	.248	-.090
16	-2.515	-2.499	-1.816	-2.313	-1.905	-1.219	-.487
17	-3.323	-3.569	-2.337	-3.129	-2.349	-1.110	-.633
18	-3.599	-3.563	-2.507	-3.512	-2.227	-.718	-.494
19	-3.741	-3.552	-2.388	-3.904	-2.763	-1.137	-.892
20	-2.691	-2.392	-1.837	-3.097	-2.050	-1.010	-.710
21	-2.233	-1.822	-1.160	-1.889	-1.376	-.749	-.674
22	-1.791	-1.147	-.706	-1.417	-.942	-.912	-.911
23	-1.660	-.504	-.454	-.398	-.509	-.380	-.437
24	-1.179	-.429	-.506	-.169	-.199	-.276	-.341
25	-.232	-2.047	-3.671	.706	1.394	1.183	-.751
26	1.023	.628	.269	1.187	*000.000	.872	-.015
27	.727	.984	.973	1.156	.660	.048	-.051
28	.275	.817	.991	.553	.416	.119	.103
29	-.124	.620	.775	.700	.659	.415	.087
30	-.295	.759	.807	.812	.721	.668	.036
31	.184	1.055	1.014	1.214	1.239	1.023	.279
32	.340	.931	.797	1.149	1.175	1.017	.565
33	.306	.696	.700	.922	.972	.783	.275

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.103	-5.483	-6.806	-.636	-.011	.540	-1.220
2	-4.432	-6.569	-7.082	-1.947	-1.260	-.363	-1.026
3	-3.968	-5.825	-6.733	-1.726	-1.491	-.627	-1.148
4	-3.731	-5.238	-5.691	-2.164	-1.845	-1.255	-1.178
5	-3.105	-4.211	-4.209	-2.162	-1.822	-.955	-.606
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.936	-2.481	-2.363	-1.744	-1.326	-.422	-.336
11	-1.504	-1.758	*000.000	-1.379	-1.145	-.415	-.403
12	-1.505	-1.329	-1.078	-1.000	-.788	-.319	-.327
13	-1.637	-1.206	-.977	-.875	-.680	-.244	-.240
14	-1.853	-1.250	-1.019	-1.007	-.695	-.297	-.448
15	-1.267	-.544	-.186	-.172	-.085	.092	-.253
16	-2.536	-2.539	-1.893	-2.386	-1.913	-.860	-.671
17	-2.864	-3.319	-2.430	-3.133	-2.091	-1.168	-1.117
18	-3.455	-3.372	-2.614	-3.128	-1.965	-1.337	-.832
19	-2.949	-3.054	-2.423	-3.899	-2.937	-1.074	-1.183
20	-2.610	-2.219	-1.766	-2.850	-1.716	-.884	-.947
21	-1.959	-1.610	-1.271	-2.063	-1.461	-.818	-.825
22	-1.661	-1.044	-.687	-1.429	-1.003	-.663	-.701
23	-1.350	-.480	-.453	-.445	-.443	-.423	-.477
24	-.991	-.452	-.472	-.118	-.175	-.120	-.211
25	-.788	-2.315	-3.840	.736	1.333	.947	-.858
26	.882	.678	.241	1.250	*000.000	.893	-.231
27	.761	1.070	.938	.895	.685	.131	-.096
28	.215	.804	.904	.514	.361	.119	-.001
29	-.166	.594	.715	.670	.566	.378	.102
30	-.279	.829	.838	.846	.765	.748	-.049
31	.230	1.104	.895	1.241	1.230	1.021	-.041
32	.330	.957	.755	1.125	1.084	1.076	.432
33	.249	.662	.571	.886	.853	.626	.141

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.802	-5.644	-6.622	-.718	-.033	.525	-.934
2	-4.746	-6.474	-6.423	-1.791	-1.078	-.467	-.757
3	-4.851	-6.473	-6.641	-2.034	-1.418	-.449	-.835
4	-4.151	-5.498	-5.647	-2.208	-1.659	-.679	-.539
5	-3.610	-4.682	-4.373	-2.343	-1.969	-1.036	-.580
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-2.048	-2.610	-2.337	-1.762	-1.312	-.355	-.126
11	-1.438	-1.786	*000.000	-1.360	-1.045	-.288	-.339
12	-1.438	-1.311	-1.060	-.969	-.717	-.260	-.293
13	-1.489	-1.210	-1.072	-.892	-.643	-.263	-.406
14	-1.705	-1.257	-1.058	-.972	-.649	-.331	-.166
15	-1.204	-.606	-.299	-.177	.070	.233	-.221
16	-2.502	-2.456	-1.830	-2.160	-1.583	-.801	-.541
17	-3.179	-3.223	-2.646	-2.948	-1.983	-1.149	-1.067
18	-3.280	-3.053	-2.679	-3.484	-2.408	-1.701	-1.476
19	-3.169	-2.722	-2.419	-3.211	-1.879	-1.371	-1.049
20	-2.604	-2.167	-1.927	-2.666	-1.842	-.876	-.938
21	-2.075	-1.566	-1.516	-1.867	-1.578	-.835	-.811
22	-1.767	-1.051	-.774	-1.179	-.778	-.498	-.606
23	-1.257	-.558	-.508	-.337	-.374	-.352	-.245
24	-.856	-.441	-.559	-.167	-.190	-.225	-.311
25	-1.366	-2.578	-3.746	.753	1.329	.811	-.650
26	.607	.616	.204	1.200	*000.000	.652	-.270
27	.561	1.064	.963	.874	.619	.017	.048
28	.165	.789	.895	.506	.338	.060	-.059
29	-.213	.533	.696	.648	.519	.373	.260
30	-.338	.781	.713	.797	.663	.671	.170
31	.215	1.026	.782	1.126	1.138	.892	-.029
32	.313	.940	.755	1.114	1.095	.822	.179
33	.189	.601	.565	.842	.786	.442	.176

Table 18. - Continued.

(b) $C_{T,s} = 0.80$, $q_s = 19.96$

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-4.850	-6.269	-6.546	-.861	-.021	.133	-.821
2	-5.670	-7.289	-6.756	-2.039	-1.087	-.311	-.716
3	-5.427	-7.321	-7.276	-2.394	-1.606	-.461	-.610
4	-4.835	-6.257	-5.985	-2.583	-1.906	-.952	-.654
5	-3.606	-4.733	-4.249	-2.314	-1.931	-.933	-.502
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.834	-2.556	-2.136	-1.721	-1.162	-.369	-.214
11	-1.401	-1.800	*000.000	-1.378	-.883	-.250	-.148
12	-1.337	-1.292	-1.000	-.913	-.574	-.235	-.199
13	-1.402	-1.216	-1.062	-.846	-.559	-.394	-.283
14	-1.413	-1.143	-1.003	-.937	-.599	-.311	-.264
15	-1.265	-.562	-.224	-.206	.039	.163	-.104
16	-2.051	-2.178	-1.764	-2.057	-1.304	-.748	-.553
17	-3.031	-2.982	-2.592	-3.090	-2.317	-1.145	-.800
18	-2.753	-2.804	-2.747	-2.944	-2.231	-1.451	-.792
19	-2.311	-2.377	-2.508	-2.813	-1.593	-1.416	-.868
20	-2.002	-2.005	-1.839	-2.588	-1.718	-1.104	-1.238
21	-1.450	-1.405	-1.504	-1.735	-1.296	-.982	-.959
22	-1.378	-.758	-.803	-.856	-.659	-.503	-.617
23	-.926	-.485	-.426	-.404	-.448	-.337	-.417
24	-.708	-.523	-.500	-.171	-.095	-.152	-.164
25	-2.309	-2.748	-3.473	.739	1.325	.600	-.533
26	.220	.528	.274	1.201	*000.000	.603	-.108
27	.330	.971	.900	.863	.634	.073	.053
28	.089	.718	.880	.516	.353	.066	.078
29	-.245	.482	.622	.632	.565	.377	.210
30	-.368	.785	.705	.812	.664	.531	.025
31	.186	1.082	.784	1.202	1.165	.821	-.086
32	.246	.770	.736	1.095	1.075	.888	.280
33	.196	.369	.555	.882	.811	.514	.108

$\alpha = 65°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-5.755	-7.190	-7.006	-.901	-.025	.475	-.730
2	-5.887	-7.477	-6.504	-2.059	-1.139	-.099	-.481
3	-5.340	-7.377	-6.751	-2.413	-1.624	-.714	-.967
4	-4.150	-6.120	-5.490	-2.534	-1.715	-.558	-.600
5	-2.996	-4.819	-4.078	-2.301	-1.614	-.401	-.218
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.786	-2.795	-2.395	-1.889	-1.215	-.365	-.260
11	-1.365	-1.869	*000.000	-1.444	-.944	-.275	-.249
12	-1.368	-1.273	-1.077	-.921	-.615	-.241	-.149
13	-1.409	-1.195	-1.134	-.943	-.660	-.272	-.261
14	-1.320	-1.180	-1.161	-.956	-.592	-.301	-.358
15	-1.168	-.500	-.233	-.156	.085	.185	-.224
16	-1.946	-2.134	-1.979	-1.747	-.958	-.718	-.532
17	-2.089	-2.528	-2.428	-2.622	-1.677	-.780	-.734
18	-2.045	-2.570	-2.848	-3.005	-1.708	-1.056	-.788
19	-2.118	-2.329	-2.742	-3.055	-1.611	-1.222	-1.015
20	-1.502	-1.668	-1.873	-2.337	-1.407	-.852	-.981
21	-1.344	-1.218	-1.623	-1.207	-.850	-.703	-.616
22	-1.113	-.707	-.932	-1.396	-.808	-.393	-.706
23	-.776	-.513	-.391	-.467	-.359	-.287	-.349
24	-.515	-.416	-.412	-.138	-.069	-.165	-.209
25	-3.232	-3.207	-3.425	.621	1.294	.728	-.441
26	-.341	.332	.324	1.214	*000.000	.425	-.187
27	-.043	.960	.959	.932	.768	.226	-.035
28	.064	.597	.756	.423	.361	.191	.028
29	-.225	.371	.556	.579	.509	.299	.043
30	-.309	.762	.613	.758	.616	.616	-.084
31	.217	.982	.674	1.099	1.093	.849	-.135
32	.249	.582	.581	.986	.979	.815	.216
33	.141	.207	.523	.774	.754	.443	-.054

$\alpha = 70°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-5.783	-7.267	-6.577	-1.098	.038	.370	-.224
2	-5.675	-8.180	-6.683	-2.345	-.779	.161	-.275
3	-5.332	-7.688	-6.658	-2.230	-1.150	-.089	-.159
4	-4.050	-6.582	-5.659	-2.671	-1.602	-.146	-.210
5	-3.031	-5.237	-4.217	-2.447	-1.464	-.252	-.118
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.695	-2.749	-2.301	-1.834	-.934	-.200	-.245
11	-1.149	-1.658	*000.000	-1.278	-.671	-.189	-.218
12	-1.243	-1.100	-.948	-.856	-.457	-.292	-.215
13	-1.381	-1.155	-1.042	-.798	-.404	-.209	-.125
14	-1.252	-1.126	-1.101	-.952	-.567	-.323	-.220
15	-.956	-.504	-.331	-.102	.115	.010	-.166
16	-1.688	-1.858	-1.775	-1.564	-.994	-.688	-.343
17	-1.794	-2.262	-2.269	-1.808	-1.168	-.957	-.745
18	-2.044	-2.357	-2.706	-2.049	-1.441	-1.101	-1.037
19	-1.779	-2.120	-2.597	-2.340	-1.671	-1.294	-.853
20	-1.023	-1.349	-2.092	-2.646	-1.698	-1.093	-.852
21	-1.075	-1.305	-1.780	-1.238	-.937	-.653	-.638
22	-1.038	-.944	-1.048	-.574	-.489	-.413	-.340
23	-.806	-.495	-.409	-.439	-.444	-.479	-.368
24	-.532	-.507	-.337	-.267	-.226	-.233	-.204
25	-4.053	-3.893	-3.553	.590	1.237	.300	-.046
26	-.755	.055	.268	1.147	*000.000	.244	-.119
27	-.376	.485	.902	1.125	.670	.028	-.067
28	-.084	.430	.761	.350	.249	.064	.117
29	-.180	.290	.514	.451	.366	.239	.140
30	-.405	.619	.530	.688	.539	.497	-.004
31	.138	.824	.629	1.124	1.127	.808	-.025
32	.143	.583	.574	1.094	.957	.817	.216
33	-.024	.184	.576	.719	.699	.377	.211

$\alpha = 75°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.863	-3.004	-2.690	-.635	.166	.146	-.190
2	-1.460	-3.399	-2.830	-1.674	-.748	.081	-.286
3	-1.328	-2.903	-2.636	-2.096	-1.060	-.389	-.763
4	-.884	-1.806	-1.985	-2.225	-1.302	-.302	-.250
5	-1.284	-1.084	-1.074	-1.946	-1.066	-.035	-.184
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.811	-.864	-.957	-1.654	-.988	-.106	-.188
11	-.779	-.852	*000.000	-1.164	-.614	-.133	-.026
12	-.936	-.819	-.879	-.747	-.432	-.228	-.169
13	-.708	-.781	-.816	-.635	-.467	-.332	-.204
14	-.624	-.654	-.721	-.690	-.526	-.323	-.340
15	-.605	-.480	-.027	0.	.034	.004	-.349
16	-1.060	-1.080	-1.364	-1.493	-.947	-.588	-.339
17	-1.100	-1.354	-2.151	-1.788	-1.229	-.834	-.504
18	-.950	-.989	-1.141	-1.584	-1.170	-.765	-.717
19	-.962	-1.063	-2.040	-1.583	-1.106	-.761	-.436
20	-.746	-.838	-1.248	-1.470	-.864	-.541	-.608
21	-.649	-.857	-1.099	-.892	-.648	-.340	-.344
22	-.533	-.722	-.943	-.594	-.491	-.503	-.462
23	-.528	-.548	-.415	-.419	-.433	-.373	-.347
24	-.466	-.437	-.271	-.205	-.239	-.251	-.254
25	-1.845	-1.587	-1.471	.903	1.266	.085	-.126
26	-.242	.351	.577	1.182	*000.000	.158	-.139
27	-.147	.490	.904	.757	.429	.129	.162
28	.012	.396	.677	.358	.261	.085	.101
29	-.118	.268	.414	.459	.341	.209	.181
30	-.238	.600	.548	.744	.536	.615	-.063
31	.249	.712	.599	1.095	1.003	.702	-.039
32	.320	.622	.613	1.179	.987	.807	.347
33	.080	.227	.552	.800	.643	.320	.087

Table 18. - Continued.

(c) $C_{T,S} = 0.60$, $q_S = 22.00$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.918	.449	-.401	.488	1.326	1.295	.608
2	.074	-.611	-1.107	.112	.659	.558	.056
3	-.212	-.970	-1.202	.039	.275	.299	-.136
4	-.625	-1.287	-1.364	-.265	-.103	-.177	-.444
5	-.781	-1.367	-1.359	-.471	-.515	-.535	-.610
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.650	-1.349	-1.466	-.917	-.930	-.644	-.544
11	-.849	-1.321	*000.000	-1.026	-1.194	-1.006	-.814
12	-1.303	-.954	-.955	-.662	-.902	-.726	-.595
13	-.800	-.991	-.925	-.676	-.865	-.710	-.479
14	-1.018	-1.095	-1.005	-.807	-.964	-.791	-.561
15	-.458	-.081	-.265	-.128	-.049	-.013	-.198
16	-1.923	-2.276	-2.063	-1.597	-1.986	-1.914	-1.301
17	-2.978	-3.247	-2.804	-2.327	-2.780	-2.250	-1.691
18	-3.405	-3.386	-2.878	-2.561	-3.032	-2.985	-1.978
19	-3.441	-3.138	-2.757	-2.652	-2.802	-3.141	-1.727
20	-3.112	-2.332	-1.697	-1.757	-2.112	-1.789	-1.431
21	-2.480	-1.543	-1.459	-.953	-.800	-1.201	-1.020
22	-1.717	-.640	-1.077	-.407	-.492	-.417	-.761
23	-1.087	-.515	-.843	-.343	-.373	-.348	-.534
24	-1.030	-.506	-.394	-.315	-.278	-.413	-.494
25	1.027	1.062	.299	.356	.934	.922	.705
26	.679	.984	.557	.301	*000.000	.488	.506
27	.142	.447	.458	.222	-.036	.004	.169
28	.050	.323	.421	.264	.116	.118	.188
29	.180	.488	.421	.411	.516	.498	.338
30	.268	.789	.485	.464	.575	.596	-.074
31	.732	1.104	.963	.767	1.074	1.052	.697
32	.725	.995	.733	.837	1.056	1.044	.984
33	.585	.804	.548	.711	.825	.778	.319

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.414	-.382	-1.557	-.179	.989	.890	.331
2	-.380	-1.375	-2.121	-.554	.175	.094	-.330
3	-.736	-1.762	-2.261	-.630	-.213	-.336	-.653
4	-1.019	-2.051	-2.399	-.930	-.733	-.926	-1.047
5	-1.218	-2.060	-2.114	-1.068	-1.110	-1.124	-1.143
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.025	-1.613	-1.797	-1.116	-1.221	-1.001	-.856
11	-.959	-1.440	*000.000	-1.114	-1.348	-1.184	-.968
12	-1.495	-1.086	-1.080	-.806	-1.074	-.900	-.693
13	-.928	-1.101	-1.026	-.769	-.966	-.794	-.539
14	-1.237	-1.187	-1.060	-.895	-1.017	-.860	-.628
15	-.670	-.301	-.309	-.056	-.149	-.106	-.141
16	-2.367	-2.574	-2.267	-1.813	-2.343	-2.147	-1.403
17	-3.208	-3.386	-2.790	-2.408	-2.877	-2.586	-1.828
18	-3.684	-3.688	-3.455	-2.676	-3.144	-3.025	-2.010
19	-3.969	-3.714	-3.453	-2.613	-3.113	-3.102	-2.007
20	-3.092	-2.910	-2.052	-1.749	-1.949	-2.207	-1.599
21	-2.462	-1.573	-1.539	-.991	-1.079	-1.345	-1.183
22	-1.605	-.985	-.922	-.502	-.404	-.617	-1.043
23	-1.154	-.623	-.721	-.365	-.385	-.363	-.555
24	-1.162	-.758	-.478	-.296	-.339	-.516	-.559
25	1.012	.829	-.372	.290	1.159	1.127	.840
26	.891	1.098	.548	.479	*000.000	.824	.730
27	.333	.783	.693	.438	.173	.171	.286
28	.159	.494	.586	.433	.258	.192	.203
29	.194	.524	.486	.544	.579	.532	.374
30	.286	.825	.616	.652	.702	.651	-.060
31	.834	1.080	.961	.978	1.195	1.135	.600
32	.688	.999	.770	.976	1.110	1.070	.954
33	.527	.750	.563	.935	.851	.719	.383

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.058	-1.411	-2.811	-.478	.444	.447	-.136
2	-1.108	-2.723	-3.669	-1.171	-.517	-.542	-.998
3	-1.351	-2.805	-3.429	-1.365	-.895	-.822	-1.143
4	-1.501	-2.750	-3.271	-1.271	-1.212	-1.277	-1.406
5	-1.572	-2.592	-3.077	-1.454	-1.636	-1.580	-1.558
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.283	-1.983	-2.167	-1.412	-1.590	-1.267	-1.088
11	-1.193	-1.762	*000.000	-1.351	-1.685	-1.474	-1.238
12	-1.584	-1.144	-1.071	-.822	-1.165	-.941	-.723
13	-1.110	-1.203	-.999	-.810	-1.023	-.869	-.580
14	-1.457	-1.190	-.919	-.915	-1.053	-.870	-.614
15	-.624	-.434	-.208	-.067	-.162	-.125	-.083
16	-2.638	-2.599	-1.975	-1.782	-2.233	-2.141	-1.181
17	-3.789	-3.713	-2.812	-2.555	-2.852	-2.662	-1.748
18	-4.127	-3.974	-2.839	-2.850	-3.164	-3.177	-2.007
19	-3.779	-3.540	-2.813	-2.793	-2.871	-3.062	-1.887
20	-3.221	-2.914	-1.860	-2.050	-2.023	-2.257	-1.620
21	-2.384	-1.710	-.937	-1.047	-1.004	-1.377	-1.317
22	-1.631	-1.055	-.375	-.414	-.415	-.716	-.923
23	-1.314	-.691	-.362	-.415	-.441	-.628	-.552
24	-1.249	-.853	-.318	-.363	-.405	-.503	-.578
25	.965	.399	-1.203	.351	1.324	1.251	.825
26	.935	1.003	.503	.644	*000.000	.985	.809
27	.480	.867	.776	.620	.467	.390	.388
28	.210	.563	.676	.540	.386	.304	.286
29	.128	.576	.633	.678	.696	.634	.471
30	.095	.762	.747	.816	.794	.766	.005
31	.473	1.040	.949	1.189	1.240	1.247	.558
32	.627	.963	.811	1.105	1.179	1.157	1.043
33	.500	.728	.525	.824	.892	.770	.333

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.700	-2.793	-4.685	-1.188	-.169	-.041	-.890
2	-1.752	-3.667	-5.032	-2.022	-1.357	-1.411	-1.831
3	-1.959	-3.819	-4.914	-2.152	-1.950	-1.834	-2.149
4	-2.052	-3.643	-4.454	-1.970	-2.137	-2.224	-2.382
5	-1.844	-3.060	-3.428	-1.885	-2.109	-2.242	-2.171
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.334	-2.029	-2.310	-1.589	-1.726	-1.442	-1.222
11	-1.126	-1.647	*000.000	-1.390	-1.712	-1.510	-1.230
12	-1.647	-1.206	-1.107	-.919	-1.233	-1.036	-.784
13	-1.377	-1.302	-1.121	-.951	-1.155	-.985	-.655
14	-1.830	-1.340	-1.077	-.960	-1.198	-1.018	-.692
15	-1.117	-.504	-.202	-.032	-.177	-.109	-.033
16	-2.881	-2.781	-1.947	-2.147	-2.566	-2.571	-1.487
17	-3.696	-3.724	-2.849	-2.778	-3.113	-2.788	-1.912
18	-3.758	-3.858	-2.899	-3.022	-3.273	-3.313	-2.060
19	-3.327	-3.747	-2.143	-3.039	-2.965	-3.341	-2.047
20	-2.367	-3.081	-1.516	-2.161	-1.866	-2.566	-1.760
21	-2.137	-1.628	-1.042	-1.083	-.937	-1.402	-1.360
22	-1.939	-1.076	-.488	-.544	-.508	-.822	-1.141
23	-1.442	-.776	-.470	-.404	-.357	-.427	-.516
24	-1.393	-.702	-.316	-.511	-.349	-.527	-.508
25	.731	-.318	-2.102	.206	1.300	1.150	.474
26	1.070	.958	.458	.938	*000.000	1.180	.703
27	.704	1.055	.923	.975	.826	.648	.486
28	.324	.747	.890	.759	.586	.434	.291
29	.146	.666	.731	.775	.779	.662	.402
30	.006	.778	.752	.922	.869	.839	.010
31	.439	1.030	1.004	1.235	1.282	1.244	.416
32	.568	.967	.869	1.213	1.195	1.095	.859
33	.470	.752	.648	.888	.916	.792	.339

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.305	-3.822	-5.847	-1.519	-.882	-.244	-1.747
2	-2.309	-4.676	-6.076	-2.468	-1.928	-1.651	-2.275
3	-2.451	-4.838	-6.238	-2.764	-2.469	-1.972	-2.366
4	-2.499	-4.444	-5.950	-2.568	-2.658	-2.575	-2.647
5	-2.325	-3.905	-4.412	-2.482	-2.714	-2.559	-2.366
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.498	-2.279	-2.575	-1.828	-1.966	-1.660	-1.400
11	-1.262	-1.769	*000.000	-1.539	-1.827	-1.540	-1.079
12	-1.776	-1.302	-1.193	-.985	-1.293	-1.043	-.828
13	-1.477	-1.290	-1.053	-.894	-1.088	-.850	-.740
14	-2.177	-1.412	-1.122	-.964	-1.140	-.787	-.725
15	-1.334	-.528	-.207	-.028	-.173	-.076	-.183
16	-2.980	-2.983	-2.081	-2.118	-2.604	-2.222	-1.135
17	-3.485	-4.057	-2.735	-2.908	-3.420	-2.793	-1.910
18	-3.521	-4.115	-2.890	-2.909	-3.443	-2.630	-1.363
19	-2.935	-4.407	-2.599	-3.046	-3.709	-3.009	-1.540
20	-2.648	-3.214	-2.147	-1.803	-2.383	-2.335	-1.375
21	-2.383	-2.132	-1.327	-1.149	-1.904	-1.320	-.980
22	-1.999	-1.285	-.547	-.439	-.642	-1.038	-.741
23	-1.621	-.760	-.582	-.325	-.515	-.512	-.671
24	-1.592	-.994	-.347	-.338	-.480	-.269	-.459
25	-.366	-1.218	-3.002	.156	1.173	1.089	-.031
26	1.039	.820	.324	1.159	*000.000	1.301	.444
27	.773	1.020	.915	1.134	.960	.703	.353
28	.381	.827	.747	.820	.677	.433	.233
29	.103	.674	.738	.834	.790	.647	.304
30	-.104	.805	.831	.999	.917	.857	.024
31	.374	1.041	1.050	1.386	1.458	1.300	.234
32	.519	.988	.934	1.237	1.272	1.183	.858
33	.448	.730	.724	.985	1.001	.797	.313

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.018	-5.212	-7.342	-2.254	-1.272	-.602	-2.028
2	-3.235	-6.562	-8.169	-3.422	-2.509	-1.954	-2.393
3	-3.203	-6.031	-7.346	-3.601	-3.128	-2.530	-2.753
4	-3.255	-5.624	-6.491	-3.575	-3.153	-2.547	-2.120
5	-2.626	-4.322	-5.005	-3.014	-3.020	-2.499	-1.819
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.775	-2.651	-2.924	-2.263	-2.125	-1.450	-.939
11	-1.417	-1.971	*000.000	-1.830	-1.844	-1.175	-.659
12	-1.847	-1.412	-1.246	-1.133	-1.245	-.794	-.606
13	-1.875	-1.462	-1.147	-1.061	-1.103	-.697	-.498
14	-2.497	-1.522	-1.150	-1.150	-1.053	-.835	-.389
15	-1.500	-.535	-.213	-.128	-.255	-.080	-.109
16	-3.105	-2.947	-2.177	-2.323	-2.624	-1.543	-.944
17	-3.569	-4.179	-2.650	-3.508	-3.196	-1.267	-.993
18	-3.504	-4.603	-2.978	-3.728	-3.850	-1.968	-.907
19	-3.047	-4.228	-2.507	-3.410	-3.359	-1.696	-1.022
20	-2.474	-3.171	-1.916	-2.639	-2.906	-1.275	-1.203
21	-2.340	-2.333	-1.330	-1.782	-1.938	-.831	-.622
22	-2.328	-1.449	-.714	-1.193	-1.173	-.715	-.538
23	-1.947	-.912	-.547	-.499	-.405	-.497	-.495
24	-1.845	-.970	-.444	-.365	-.309	-.387	-.363
25	-.130	-2.334	-4.126	-.008	1.042	1.115	-.832
26	1.041	.893	.086	1.368	*000.000	1.422	.220
27	.990	1.072	.693	1.242	1.112	.820	.268
28	.935	.870	.900	.771	.588	.449	.318
29	.125	.748	.839	.825	.828	.632	.423
30	-.230	.943	.841	.958	.918	.836	.092
31	.271	1.073	1.085	1.328	1.366	1.296	.204
32	.457	.981	.904	1.237	1.232	1.145	.771
33	.434	.816	.779	.971	1.035	.773	.335

Table 18. - Continued.

(c) $C_{T,S} = 0.60$, $q_s = 22.00$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-6.878	-6.524	-8.393	-2.410	-1.455	-.723	-1.987
2	-3.819	-7.300	-8.676	-3.646	-2.610	-1.687	-1.684
3	-3.740	-6.833	-7.965	-3.714	-2.957	-1.561	-1.034
4	-3.602	-6.103	-7.013	-3.857	-3.265	-2.152	-1.215
5	-2.948	-4.731	-5.279	-3.264	-2.987	-2.167	-.997
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.841	-2.711	-2.841	-2.865	-1.847	-.937	-.477
11	-1.530	-2.029	*000.000	-1.854	-1.763	-.980	-.557
12	-1.738	-1.420	-1.227	-1.158	-1.051	-.593	-.460
13	-2.058	-1.558	-1.271	-1.214	-1.014	-.585	-.528
14	-2.369	-1.485	-1.220	-1.195	-.888	-.262	-.575
15	-1.519	-.555	-.212	-.233	-.117	.110	-.175
16	-2.885	-3.007	-2.189	-2.653	-2.051	-1.190	-.963
17	-2.918	-4.139	-2.885	-3.358	-2.354	-1.033	-.904
18	-3.310	-4.208	-2.906	-3.908	-2.943	-1.501	-1.075
19	-2.689	-4.134	-2.741	-4.165	-3.324	-1.119	-.967
20	-2.347	-2.805	-1.813	-2.989	-1.590	-.760	-.642
21	-2.307	-2.274	-1.449	-2.160	-1.491	-.943	-.868
22	-2.426	-1.470	-1.012	-1.516	-1.532	-.868	-.655
23	-2.038	-.606	-.493	-.416	-.631	-.619	-.580
24	-1.541	-.462	-.386	-.200	-.398	-.451	-.518
25	-.444	-3.109	-4.754	-.059	.926	1.018	-1.083
26	.972	.438	-.057	1.260	*000.000	1.266	.029
27	.937	1.059	.916	1.242	1.154	.730	.219
28	.464	.936	.940	.795	.704	.396	.262
29	.063	.718	.808	.809	.786	.590	.402
30	-.414	.894	.939	1.013	.916	.803	.057
31	.232	1.081	.988	1.260	1.298	1.202	.088
32	.450	1.037	.917	1.205	1.268	1.130	.729
33	.389	.720	.727	1.037	.987	.683	.138

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.596	-7.624	-9.323	-2.939	-1.636	-.476	-1.312
2	-4.584	-8.277	-9.401	-4.128	-2.986	-1.799	-1.286
3	-4.564	-7.966	-8.976	-4.401	-3.429	-1.882	-.821
4	-4.193	-6.647	-7.347	-4.271	-3.430	-2.389	-1.133
5	-3.136	-4.911	-5.341	-3.481	-2.989	-1.955	-.588
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-2.005	-2.854	-2.967	-2.580	-1.959	-.901	-.364
11	-1.633	-2.093	*000.000	-1.955	-1.615	-.858	-.427
12	-1.841	-1.488	-1.264	-1.195	-1.022	-.678	-.489
13	-2.043	-1.433	-1.232	-1.185	-.839	-.510	-.410
14	-2.137	-1.494	-1.277	-1.209	-.929	-.154	-.370
15	-1.656	-.583	-.117	-.188	.064	.159	-.057
16	-2.545	-2.746	-2.126	-2.629	-2.088	-1.092	-.601
17	-2.854	-3.806	-2.761	-3.309	-2.179	-1.007	-.672
18	-2.928	-3.855	-2.926	-3.583	-2.170	-1.330	-.921
19	-2.776	-3.650	-2.780	-3.766	-2.238	-1.243	-.692
20	-2.271	-2.714	-2.234	-3.418	-2.277	-.972	-.897
21	-1.994	-1.807	-1.520	-1.692	-1.058	-.672	-.527
22	-1.994	-1.191	-.940	-1.502	-1.219	-.938	-.688
23	-1.751	-.556	-.464	-.474	-.575	-.638	-.576
24	-1.398	-.496	-.446	-.199	-.400	-.457	-.384
25	-1.051	-4.010	-5.740	-.342	.783	.912	-.929
26	.855	.238	-.319	1.171	*000.000	1.017	-.003
27	.872	.989	.746	1.197	1.113	.517	.174
28	.445	.974	1.059	.852	.735	.350	.310
29	-.009	.741	.848	.836	.768	.480	.331
30	-.423	.943	.932	1.036	.890	.791	.042
31	.251	1.100	.890	1.247	1.268	1.087	.113
32	.440	1.039	.852	1.279	1.215	1.049	.643
33	.394	.798	.795	1.065	1.007	.647	.191

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-4.917	-9.618	-11.532	-3.945	-2.172	-.584	-.995
2	-5.716	-9.915	-11.484	-5.268	-3.604	-1.984	-1.134
3	-5.304	-8.985	-9.843	-5.076	-3.855	-2.140	-.913
4	-4.720	-7.259	-7.806	-4.747	-3.672	-2.057	-.512
5	-3.731	-5.726	-5.864	-4.045	-3.324	-1.790	-.438
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-2.089	-2.979	-3.067	-2.696	-2.014	-.836	-.353
11	-1.672	-2.056	*000.000	-1.939	-1.438	-.648	-.329
12	-1.747	-1.410	-1.178	-1.093	-.981	-.471	-.352
13	-1.777	-1.371	-1.194	-1.016	-.767	-.362	-.344
14	-1.815	-1.415	-1.274	-1.130	-.733	-.038	-.226
15	-1.327	-.547	-.251	-.245	.002	.077	-.228
16	-2.307	-2.728	-2.154	-2.271	-1.381	-.800	-.491
17	-2.649	-3.416	-2.696	-3.109	-2.046	-.747	-.706
18	-2.968	-3.675	-3.117	-3.527	-1.837	-1.088	-.887
19	-2.659	-3.318	-2.928	-3.850	-2.430	-.862	-.698
20	-2.394	-2.502	-2.152	-2.431	-1.285	-.757	-.839
21	-1.725	-1.730	-1.697	-2.184	-1.658	-.822	-.733
22	-1.606	-1.238	-1.075	-1.515	-1.055	-.818	-.711
23	-1.383	-.590	-.491	-.662	-.594	-.627	-.608
24	-1.115	-.509	-.454	-.350	-.419	-.410	-.424
25	-1.377	-4.628	-6.453	-.717	.571	.795	-.861
26	.918	.185	-.510	1.179	*000.000	1.058	-.072
27	.926	1.087	.775	1.251	1.212	.471	.148
28	.384	.946	.979	.801	.662	.353	.309
29	-.026	.750	.879	.848	.700	.510	.362
30	-.495	.977	.934	1.040	.838	.822	-.039
31	.244	1.190	1.058	1.406	1.371	1.232	-.038
32	.464	1.067	.911	1.291	1.270	1.101	.638
33	.349	.641	.689	1.019	.913	.578	.155

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-5.268	-9.859	-11.416	-4.304	-2.713	-1.034	-.928
2	-6.081	-10.087	-10.958	-5.364	-3.586	-1.595	-.448
3	-5.336	-9.033	-9.595	-5.108	-3.808	-1.615	-.540
4	-4.563	-7.853	-7.534	-4.786	-3.675	-1.807	-.418
5	-3.640	-5.707	-5.548	-4.078	-3.392	-1.515	-.386
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-2.010	-2.975	-2.809	-2.580	-1.720	-.515	-.305
11	-1.636	-2.089	*000.000	-1.920	-1.359	-.552	-.302
12	-1.795	-1.484	-1.211	-1.201	-.899	-.385	-.287
13	-1.774	-1.261	-1.038	-.863	-.575	-.286	-.255
14	-1.510	-1.227	-1.033	-.943	-.643	.053	-.327
15	-1.323	-.497	-.117	-.050	.138	.193	-.074
16	-2.122	-2.567	-2.118	-2.369	-1.567	-.999	-.711
17	-2.549	-3.386	-2.778	-2.494	-1.563	-.778	-.662
18	-2.372	-3.174	-2.777	-2.656	-1.371	-.764	-.668
19	-1.837	-2.822	-2.669	-2.677	-1.318	-.858	-.430
20	-1.601	-2.327	-2.451	-2.388	-1.178	-.733	-.748
21	-1.335	-1.596	-1.674	-2.106	-1.286	-1.177	-1.288
22	-1.243	-1.077	-1.173	-1.223	-.827	-.684	-.703
23	-1.255	-.447	-.333	-.559	-.576	-.513	-.522
24	-.978	-.421	-.428	-.343	-.383	-.355	-.332
25	-2.189	-5.518	-6.841	-1.179	-.443	.271	-.797
26	.192	.041	-.553	1.076	*000.000	.667	-.057
27	.433	1.001	.599	1.197	1.119	.299	.193
28	.290	1.007	1.038	.887	.740	.407	.408
29	-.035	.690	.849	.839	.692	.522	.428
30	-.361	1.003	.968	1.045	.845	.842	.065
31	.264	1.214	.907	1.285	1.214	.960	.111
32	.477	1.028	.839	1.277	1.223	1.016	.566
33	.381	.914	.785	1.053	.934	.590	.149

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-6.073	-10.831	-11.211	-4.510	-2.659	-1.377	-.580
2	-6.307	-11.308	-11.824	-6.018	-4.182	-1.847	-.417
3	-5.884	-10.613	-10.563	-5.644	-4.094	-1.542	-.286
4	-4.456	-8.076	-8.101	-5.083	-3.637	-1.432	-.404
5	-3.594	-6.362	-6.169	-4.317	-3.344	-1.289	-.400
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.747	-2.979	-2.944	-2.554	-1.593	-.392	-.259
11	-1.205	-1.771	*000.000	-1.696	-1.078	-.403	-.268
12	-1.704	-1.287	-1.185	-1.011	-.679	-.296	-.299
13	-1.609	-1.229	-1.144	-1.031	-.562	-.391	-.388
14	-1.450	-1.207	-1.143	-.956	-.529	.107	-.362
15	-1.241	-.382	-.174	-.003	.147	.095	-.106
16	-1.658	-2.098	-2.136	-1.871	-1.261	-.987	-.697
17	-1.682	-2.422	-2.585	-1.835	-1.171	-.774	-.518
18	-2.197	-2.684	-2.935	-2.221	-1.272	-.809	-.600
19	-1.512	-2.225	-3.049	-2.283	-1.315	-.559	-.646
20	-1.361	-1.846	-2.228	-1.577	-.934	-.776	-.876
21	-1.211	-1.440	-1.719	-1.121	-.770	-.529	-.490
22	-1.382	-1.063	-1.312	-1.138	-.643	-.580	-.561
23	-1.177	-.513	-.452	-.581	-.590	-.604	-.712
24	-.811	-.308	-.232	-.403	-.374	-.380	-.423
25	-3.944	-6.530	-7.121	-1.549	-.276	-.220	-1.161
26	-.683	-.362	-.590	1.037	*000.000	.211	-.333
27	-.045	.797	.800	1.260	1.266	.200	.125
28	.148	.763	1.064	.867	.755	.442	.374
29	-.034	.589	.752	.945	.688	.473	.381
30	-.262	.923	.787	1.042	.770	.731	.078
31	.261	1.117	.783	1.307	1.267	.948	.043
32	.351	.871	.897	1.329	1.263	.961	.474
33	.297	.459	.896	1.023	.818	.537	.133

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.321	-3.162	-3.306	-4.218	-2.852	-1.710	-.573
2	-1.987	-2.052	-1.709	-5.198	-4.127	-2.094	-.364
3	-1.775	-1.522	-1.038	-5.602	-4.804	-1.996	-.371
4	-.994	-.862	-.640	-4.643	-3.962	-1.693	-.291
5	-.956	-.729	-.775	-3.691	-3.294	-1.552	-.424
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.733	-.664	-.833	-2.327	-1.944	-.608	-.362
11	-.750	-.708	*000.000	-1.422	-1.125	-.394	-.267
12	-.677	-.666	-.636	-.841	-.745	-.405	-.361
13	-.672	-.615	-.544	-.761	-.731	-.341	-.337
14	-.719	-.715	-.589	-.889	-.623	.027	-.355
15	-.691	-.420	.063	.022	.007	.038	-.120
16	-.859	-1.023	-.891	-1.490	-1.284	-.796	-.622
17	-1.012	-1.374	-1.209	-1.885	-1.205	-.760	-.676
18	-.923	-1.024	-1.011	-1.786	-1.256	-.698	-.643
19	-.834	-.913	-.913	-2.029	-1.277	-.664	-.785
20	-.710	-.790	-.809	-1.841	-1.219	-.838	-.846
21	-.765	-.849	-.819	-1.406	-1.089	-.773	-.856
22	-.650	-.725	-.691	-.793	-.686	-.618	-.643
23	-.607	-.642	-.590	-.588	-.605	-.594	-.619
24	-.631	-.505	-.395	-.454	-.545	-.463	-.491
25	-1.763	-2.206	-2.454	-1.436	-.158	-.869	-.864
26	-.064	.481	.503	.940	*000.000	.142	-.229
27	.130	.823	1.136	1.226	1.191	.341	.160
28	.146	.633	.982	.799	.681	.377	.374
29	.027	.480	.733	.690	.548	.450	.414
30	-.109	.902	.781	.918	.630	.689	-.028
31	.386	1.097	.823	1.307	1.251	.985	.072
32	.366	.750	.853	1.234	1.163	.844	.460
33	.304	.388	.756	.924	.771	.496	.095

Table 18.- Continued.

(d) $C_{T,S} = 0.30$, $q_s = 18.92$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.663	.312	-.319	.122	.824	.742	.556
2	-.110	-.652	-1.052	-.676	-.093	-.129	-.251
3	-.379	-1.104	-1.586	-1.024	-.512	-.460	-.612
4	-.663	-1.346	-1.734	-1.233	-.994	-.872	-.954
5	-.950	-1.612	-1.911	-1.505	-1.462	-1.392	-1.333
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.029	-1.574	-1.979	-1.644	-1.463	-1.141	-1.063
11	-1.066	-1.578	*000.000	-1.546	-1.663	-1.494	-1.354
12	-1.666	-1.207	-1.245	-.981	-1.267	-1.081	-.878
13	-1.054	-1.344	-1.322	-.983	-1.222	-1.024	-.716
14	-1.195	-1.305	-1.174	-.943	-1.109	-.061	-.738
15	-.835	-.054	-.446	-.205	-.224	-.150	-.123
16	-2.341	-2.838	-2.368	-1.988	-2.484	-2.397	-1.478
17	-3.523	-4.374	-3.558	-2.879	-3.187	-2.706	-1.965
18	-3.786	-4.361	-3.661	-3.033	-3.173	-3.056	-2.046
19	-4.192	-4.516	-3.972	-3.091	-3.188	-3.201	-1.698
20	-3.258	-3.335	-2.748	-2.277	-1.666	-2.060	-1.360
21	-2.889	-2.750	-2.101	-.926	-.941	-1.425	-1.149
22	-1.736	-1.562	-1.368	-.630	-.602	-.545	-.425
23	-1.162	-.730	-.479	-.492	-.415	-.473	-.704
24	-1.135	-.690	-.532	-.436	-.387	-.505	-.633
25	1.043	1.147	.474	.554	1.375	1.194	1.084
26	.547	.425	.045	.558	*000.000	.753	.767
27	.043	.407	.343	.553	.157	.196	.276
28	.022	.272	.296	.418	.179	.195	.222
29	.110	.443	.377	.363	.551	.523	.411
30	.205	.823	.582	.580	.702	.682	-.068
31	.584	1.021	.886	.966	1.044	.973	.810
32	.680	1.032	.799	.983	1.105	1.043	1.053
33	.487	.754	.587	.833	.762	.703	.386

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.149	-.671	-1.507	-.754	.244	.165	-.071
2	-.914	-2.008	-2.606	-1.794	-.994	-1.066	-1.151
3	-1.142	-2.307	-2.739	-2.060	-1.435	-1.451	-1.470
4	-1.295	-2.369	-2.860	-2.276	-1.871	-1.839	-1.795
5	-1.427	-2.358	-2.661	-2.233	-2.120	-2.035	-1.885
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.169	-1.772	-2.125	-1.914	-1.811	-1.494	-1.383
11	-1.170	-1.726	*000.000	-1.693	-1.944	-1.712	-1.503
12	-1.763	-1.257	-1.233	-1.028	-1.404	-1.185	-.932
13	-1.034	-1.215	-1.111	-.931	-1.171	-.997	-.659
14	-1.436	-1.322	-1.111	-1.106	-1.255	-.175	-.774
15	-.832	-.208	-.363	-.162	-.294	-.235	-.257
16	-2.656	-2.885	-1.962	-2.184	-2.471	-2.360	-1.434
17	-3.545	-3.868	-2.476	-2.847	-3.199	-2.819	-1.758
18	-3.740	-3.886	-2.805	-2.940	-3.348	-3.200	-1.869
19	-4.377	-4.397	-3.103	-3.274	-3.282	-3.178	-1.547
20	-3.086	-2.749	-1.619	-2.455	-2.070	-2.135	-1.374
21	-2.443	-2.554	-1.474	-1.497	-1.429	-1.317	-1.063
22	-2.006	-1.539	-.704	-.697	-.645	-.549	-.886
23	-1.390	-.721	-.455	-.481	-.444	-.519	-.673
24	-1.384	-.744	-.467	-.460	-.416	-.567	-.658
25	.906	.738	-.092	.209	1.247	1.034	.904
26	.834	1.032	.553	.642	*000.000	1.105	1.034
27	.278	.640	.520	.521	.503	.537	.577
28	.155	.410	.455	.396	.370	.396	.431
29	.136	.535	.471	.572	.693	.687	.592
30	.102	.744	.575	.716	.727	.716	-.006
31	.588	1.107	.940	1.198	1.265	1.168	.980
32	.670	1.088	.817	1.170	1.211	1.141	1.122
33	.479	.806	.514	.852	.880	.799	.464

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.399	-1.742	-2.972	-1.944	-.735	-.845	-1.038
2	-1.466	-3.012	-3.946	-3.234	-2.176	-2.282	-2.291
3	-1.844	-3.532	-4.321	-3.716	-3.067	-3.037	-3.064
4	-2.150	-3.729	-4.317	-3.483	-3.103	-3.194	-3.224
5	-2.085	-3.407	-3.805	-3.400	-3.274	-3.298	-3.147
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.490	-2.289	-2.830	-2.476	-2.423	-2.029	-1.866
11	-1.237	-1.834	*000.000	-1.901	-2.158	-1.921	-1.701
12	-1.871	-1.348	-1.316	-1.098	-1.574	-1.330	-1.098
13	-1.243	-1.399	-1.222	-1.120	-1.362	-1.151	-.776
14	-1.884	-1.416	-1.172	-1.213	-1.374	-.211	-.966
15	-1.040	-.323	-.240	-.162	-.302	-.260	-.343
16	-2.564	-2.671	-2.038	-2.188	-2.964	-2.459	-1.588
17	-3.006	-3.590	-2.535	-2.945	-3.301	-3.011	-1.774
18	-2.893	-3.690	-2.739	-3.079	-3.276	-3.367	-1.931
19	-2.770	-4.058	-3.001	-3.554	-3.449	-3.687	-2.018
20	-2.353	-2.725	-1.764	-2.345	-2.230	-2.475	-1.579
21	-1.885	-2.085	-.914	-1.471	-1.294	-1.500	-1.063
22	-1.926	-.950	-.729	-.586	-.547	-1.124	-.907
23	-1.524	-.815	-.558	-.567	-.541	-.502	-.702
24	-1.398	-.789	-.507	-.491	-.501	-.509	-.583
25	.631	.127	-1.283	-.295	.993	.671	.458
26	.941	.992	.307	.865	*000.000	1.233	1.063
27	.555	.896	.648	.844	.877	.845	.758
28	.283	.530	.603	.637	.574	.579	.539
29	.119	.579	.605	.717	.756	.719	.608
30	.104	.805	.644	.947	.867	.866	-.117
31	.482	1.077	.973	1.336	1.292	1.198	.893
32	.569	.975	.827	1.170	1.158	1.093	.986
33	.486	.772	.707	.903	.907	.809	.438

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.473	-3.608	-5.453	-3.743	-2.295	-2.366	-2.620
2	-2.718	-5.052	-6.567	-5.156	-4.071	-4.026	-3.993
3	-2.792	-5.088	-6.283	-4.966	-4.289	-4.163	-4.148
4	-2.821	-4.714	-5.670	-4.563	-4.230	-4.146	-4.038
5	-2.557	-4.089	-4.735	-4.127	-4.292	-4.141	-3.926
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.796	-2.697	-3.153	-2.879	-2.895	-2.561	-2.182
11	-1.286	-1.897	*000.000	-1.895	-2.319	-2.064	-1.788
12	-2.130	-1.471	-1.441	-1.135	-1.649	-1.387	-1.023
13	-1.480	-1.315	-1.135	-.939	-1.233	-1.013	-.704
14	-2.376	-1.570	-1.282	-1.107	-1.375	-.209	-1.005
15	-1.282	-.364	-.109	-.087	-.217	-.232	-.087
16	-3.013	-2.998	-2.316	-2.272	-2.736	-2.465	-1.277
17	-2.972	-4.014	-2.936	-3.020	-3.389	-2.780	-1.648
18	-3.023	-4.420	-3.329	-3.532	-3.718	-3.275	-1.628
19	-2.556	-4.073	-3.006	-3.231	-3.461	-3.374	-1.670
20	-2.187	-3.142	-2.076	-2.158	-2.022	-1.976	-1.202
21	-2.062	-2.045	-1.241	-1.464	-1.178	-1.243	-1.038
22	-1.892	-1.107	-.818	-.784	-.586	-.691	-.785
23	-1.708	-.818	-.459	-.398	-.389	-.420	-.637
24	-1.542	-.878	-.511	-.454	-.368	-.537	-.604
25	.155	-.966	-2.372	-.778	.569	-.217	-.038
26	.920	.854	.383	1.022	*000.000	1.199	.885
27	.686	.981	.853	1.149	1.136	1.083	.907
28	.355	.736	.828	.963	.790	.734	.652
29	.099	.635	.717	.850	.849	.792	.679
30	-.059	.858	.891	1.128	.983	.958	.084
31	.303	.983	.940	1.376	1.272	1.177	.643
32	.460	1.019	.975	1.362	1.291	1.212	1.045
33	.436	.756	.774	1.009	.971	.804	.440

Table 18. - Concluded.

(d) $C_{T,S} = 0.30$, $q_s = 18.92$

$\alpha = 25°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	-2.625	-5.639	-7.577	-8.713	-9.994	-9.798	-9.197
2	-3.720	-7.100	-8.885	-9.225	-9.469	-9.245	-9.200
3	-3.657	-6.619	-7.987	-8.331	-8.146	-8.756	-8.634
4	-3.407	-5.892	-7.048	-7.694	-7.813	-7.894	-7.718
5	-2.748	-4.676	-5.416	-6.065	-6.004	-6.866	-6.649
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.643	-2.878	-3.388	-3.150	-3.131	-2.849	-2.463
11	-1.361	-2.070	*000.000	-2.101	-2.516	-2.130	-1.595
12	-2.354	-1.648	-1.596	-1.321	-1.780	-1.427	-1.009
13	-2.328	-1.609	-1.388	-1.244	-1.444	-1.233	-1.139
14	-2.447	-1.629	-1.331	-1.208	-1.289	-.568	-1.071
15	-1.406	-.548	-.332	-.280	-.381	-.437	-.124
16	-2.984	-3.101	-2.344	-2.313	-2.091	-2.256	-1.300
17	-2.454	-4.221	-3.059	-2.974	-3.349	-2.212	-1.511
18	-2.815	-4.098	-2.938	-2.855	-3.179	-2.585	-1.403
19	-2.572	-4.243	-2.927	-2.968	-3.618	-2.329	-1.333
20	-2.392	-3.543	-2.387	-2.369	-2.303	-1.672	-1.135
21	-2.276	-2.492	-1.671	-1.398	-1.284	-1.474	-.971
22	-2.093	-1.533	-.954	-1.033	-.875	-.928	-.776
23	-1.747	-.975	-.401	-.367	-.573	-.600	-.746
24	-1.430	-.819	-.432	-.389	-.356	-.557	-.727
25	-.494	-2.552	-4.102	-1.601	-.235	-.655	-1.153
26	.688	.559	.165	1.077	*000.000	1.186	.492
27	.804	.439	.833	1.312	1.269	1.139	.726
28	.494	.484	1.008	1.080	.973	.843	.655
29	.154	.695	.828	.880	.871	.748	.551
30	-.203	.884	1.007	1.150	1.049	.976	-.034
31	.314	1.220	1.201	1.562	1.474	1.378	.578
32	.486	.991	.912	1.400	1.284	1.169	.952
33	.457	.748	.698	1.111	1.040	.820	.383

$\alpha = 30°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	-3.840	-7.705	-9.588	-9.495	-9.394	-9.476	-9.984
2	-4.735	-8.612	-10.457	-9.104	-8.212	-8.908	-8.281
3	-4.234	-7.381	-8.737	-8.385	-8.834	-8.672	-8.838
4	-3.882	-6.514	-7.497	-7.970	-8.312	-8.412	-8.239
5	-3.036	-4.910	-5.528	-6.869	-6.509	-8.713	-8.391
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-2.030	-3.154	-3.746	-3.331	-2.885	-2.057	-.991
11	-1.491	-2.135	*000.000	-2.126	-2.139	-1.333	-.898
12	-2.183	-1.553	-1.515	-1.248	-1.216	-1.208	-.971
13	-2.223	-1.469	-1.307	-1.020	-1.006	-.635	-.637
14	-2.156	-1.601	-1.333	-1.210	-1.220	-.399	-.904
15	-1.598	-.474	-.369	-.184	-.198	-.011	.001
16	-2.575	-3.063	-2.393	-2.088	-1.935	-1.132	-1.004
17	-2.977	-4.440	-3.271	-2.881	-2.911	-1.332	-1.166
18	-2.805	-4.565	-3.338	-3.221	-2.348	-1.350	-1.256
19	-2.781	-4.763	-3.403	-2.815	-2.149	-1.377	-1.179
20	-2.782	-3.727	-2.577	-1.954	-1.727	-1.164	-.994
21	-2.494	-2.733	-1.826	-1.517	-1.371	-1.002	-.877
22	-2.281	-1.679	-1.188	-1.026	-1.112	-.784	-.754
23	-2.004	-.896	-.532	-.477	-.701	-.663	-.717
24	-1.679	-.591	-.467	-.396	-.662	-.648	-.643
25	-1.223	-3.725	-5.239	-1.778	-.472	-.452	-1.794
26	.896	.249	-.221	1.081	*000.000	1.300	.019
27	.863	.974	.850	1.496	1.448	1.255	.690
28	.482	.893	.966	1.004	.996	.815	.640
29	.126	.706	.822	.858	.878	.730	.638
30	-.330	.908	.934	1.116	1.060	.988	.115
31	.255	1.060	1.025	1.383	1.355	1.284	.443
32	.434	1.025	.902	1.319	1.303	1.162	.922
33	.454	.850	.763	1.075	1.075	.801	.474

$\alpha = 35°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	-4.825	-9.566	-11.630	-8.261	-4.894	-3.372	-3.594
2	-5.597	-9.921	-11.798	-7.653	-6.437	-4.943	-3.594
3	-5.321	-9.176	-10.461	-7.092	-6.373	-4.723	-3.048
4	-4.503	-7.155	-8.195	-6.290	-5.470	-4.132	-2.010
5	-3.721	-5.998	-6.426	-5.535	-4.951	-3.764	-1.769
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-2.045	-3.203	-3.735	-3.163	-2.771	-1.822	-.873
11	-1.514	-2.233	*000.000	-2.193	-1.915	-1.016	-.541
12	-2.244	-1.610	-1.521	-1.230	-1.170	-.770	-.624
13	-1.926	-1.550	-1.436	-1.089	-1.032	-.637	-.623
14	-1.852	-1.565	-1.372	-1.052	-.935	-.154	-.547
15	-1.376	-.498	-.335	-.063	-.196	.118	-.005
16	-2.404	-3.114	-2.738	-2.155	-1.880	-1.326	-.864
17	-2.801	-4.094	-3.183	-2.493	-1.855	-1.110	-.987
18	-2.573	-4.562	-3.723	-2.530	-1.475	-1.026	-.932
19	-2.588	-4.282	-3.404	-1.872	-1.304	-1.095	-.832
20	-2.242	-3.317	-2.638	-1.797	-1.187	-.880	-.869
21	-2.253	-2.428	-1.845	-1.448	-1.371	-.874	-.810
22	-2.057	-1.657	-1.474	-1.175	-.928	-.645	-.765
23	-1.812	-.901	-.442	-.612	-.777	-.721	-.736
24	-1.477	-.724	-.476	-.333	-.545	-.578	-.608
25	-1.955	-5.020	-6.551	-2.360	-.849	-.450	-2.138
26	.545	-.135	-.447	.994	*000.000	1.304	.034
27	.808	.807	.695	1.381	1.372	1.186	.511
28	.544	.910	.958	1.031	.990	.786	.624
29	.137	.831	.969	1.047	.976	.861	.727
30	-.312	.982	1.000	1.179	1.041	1.008	.194
31	.208	1.104	1.024	1.426	1.367	1.351	.422
32	.400	.978	.912	1.317	1.279	1.189	.990
33	.470	.778	.844	1.137	1.038	.842	.458

$\alpha = 40°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	-3.865	-5.032	-4.250	-5.298	-4.571	-3.258	-3.304
2	-4.243	-4.882	-3.061	-6.289	-5.824	-4.122	-1.948
3	-4.350	-4.715	-2.508	-6.604	-6.327	-4.633	-2.158
4	-3.627	-2.604	-1.294	-5.440	-5.452	-4.113	-1.353
5	-2.463	-1.521	-1.265	-4.156	-4.210	-2.759	-.722
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.121	-1.203	-1.054	-2.293	-2.176	-1.069	-.402
11	-.965	-1.455	*000.000	-1.532	-1.322	-.837	-.551
12	-1.368	-1.390	-1.191	-.971	-.890	-.533	-.546
13	-.731	-1.035	-.905	-.809	-.849	-.608	-.723
14	-.725	-.881	-.958	-.864	-.768	-.148	-.550
15	-.417	-.504	-.001	-.016	-.031	-.010	-.063
16	-1.100	-1.314	-1.323	-1.695	-1.682	-1.089	-.987
17	-1.084	-1.540	-1.595	-2.040	-1.763	-1.069	-.887
18	-1.051	-1.348	-1.434	-1.607	-1.306	-.996	-.831
19	-1.029	-1.344	-1.271	-2.005	-1.505	-.955	-.816
20	-.914	-1.171	-1.101	-1.566	-1.297	-.907	-.993
21	-.870	-.959	-.819	-1.248	-1.082	-.873	-.960
22	-.782	-.849	-.848	-1.098	-.928	-.895	-1.064
23	-.744	-.819	-.726	-.716	-.706	-.776	-.790
24	-.764	-.711	-.845	-.602	-.654	-.649	-.698
25	-1.858	-3.161	-3.146	-2.391	-1.030	-.851	-2.491
26	.533	.216	.250	.844	*000.000	1.078	-.033
27	.890	.935	1.032	1.422	1.453	1.194	.585
28	.577	.924	1.019	1.051	1.001	.765	.619
29	.249	.784	.923	.946	.889	.737	.615
30	-.070	.928	.968	1.115	.987	.887	.163
31	.454	1.126	.996	1.390	1.347	1.263	.546
32	.587	1.058	.958	1.327	1.306	1.168	.921
33	.510	.742	.755	1.036	1.000	.756	.409

Table 19.- Pressure coefficients for wing with propeller rotation up at tip, basic leading edge, fences on, $\delta_f = 0°$.

(a) $C_{T,S} = 0.90$, $q_s = 20.18$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.471	.472	.874	-.664	.476	.924	.074
2	.425	.436	.404	.633	1.161	1.093	.068
3	.151	.095	.053	.917	1.090	.933	.046
4	-.159	-.179	-.204	1.031	.922	.524	-.032
5	-.422	-.567	-.580	.820	.645	.202	-.062
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.314	-.410	-.832	.113	-.090	.049	-.066
11	-.234	-.634	.000.000	-.276	-.408	-.278	-.250
12	-.788	-.353	-.377	-.174	-.379	-.118	-.156
13	-.059	-.179	-.157	-.137	-.252	-.110	-.154
14	-.041	-.091	-.042	-.154	-.192	-.169	-.110
15	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
16	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
17	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
18	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
19	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
20	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
21	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
22	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
23	-.072	-.035	.064	-.061	-.100	-.067	-.156
24	-.050	.129	.232	.109	.139	.010	-.096
25	.449	1.077	.918	-2.856	-.757	-.051	.073
26	.534	.754	.892	-2.819	.000.000	-.803	-.049
27	-.041	.087	.153	-1.457	-1.305	-.732	-.180
28	-.093	-.005	.013	-.136	-.639	-.310	-.070
29	.012	.025	.049	0.	-.094	-.034	-.042
30	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
31	-.005	.094	.173	.145	.091	.044	-.015
32	-.023	.103	.209	.160	.080	.056	-.034
33	.026	.148	.219	.218	.134	.068	.028

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.887	.743	.538	-.020	.850	1.015	.126
2	.223	.088	-.043	.784	1.135	.981	-.020
3	.049	-.111	-.302	.796	1.117	.844	-.016
4	-.354	-.514	-.549	.903	.913	.430	-.121
5	-.510	-.776	-.845	.862	.482	.041	-.139
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.348	-.648	-.952	.066	-.177	-.144	-.074
11	-.235	-.693	.000.000	-.231	-.435	-.355	-.199
12	-.741	-.356	-.388	-.163	-.317	-.239	-.118
13	-.071	-.142	-.173	-.084	-.188	-.165	-.035
14	-.043	-.104	-.068	-.111	-.137	-.202	-.141
15	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
16	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
17	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
18	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
19	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
20	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
21	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
22	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
23	-.046	-.029	.052	.010	-.043	-.093	-.020
24	-.068	.112	.134	.155	.205	-.004	.014
25	1.087	1.078	.883	-2.187	-.636	.100	.189
26	.622	.857	.850	-2.042	.000.000	-.424	.219
27	.042	.321	.403	-1.201	-1.098	-.665	.068
28	-.025	.093	.117	-.071	-.478	-.261	.063
29	.039	.068	.073	.187	-.051	-.023	.127
30	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
31	.025	.132	.147	.205	.097	.027	.133
32	0.	.125	.208	.294	.138	.062	.050
33	.025	.146	.220	.293	.198	.060	.092

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.732	.566	.183	-.123	.888	1.035	.009
2	.048	-.271	-.506	.737	1.127	.917	-.187
3	-.276	-.597	-.697	.897	1.035	.755	-.235
4	-.439	-.785	-.978	.807	.754	.351	-.301
5	-.635	-.995	-1.134	.622	.352	-.036	-.244
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.421	-.803	-1.193	-.021	-.305	-.222	-.193
11	-.312	-.748	.000.000	-.317	-.521	-.447	-.295
12	-.956	-.345	-.368	-.181	-.347	-.239	-.222
13	-.141	-.184	-.199	-.074	-.209	-.239	-.200
14	-.144	-.120	-.096	-.066	-.116	-.163	-.119
15	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
16	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
17	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
18	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
19	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
20	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
21	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
22	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
23	-.145	-.092	.030	-.023	-.026	-.076	-.035
24	-.183	.090	.145	.168	.202	.037	-.014
25	1.055	1.044	.734	-1.520	-.410	.348	.078
26	.666	.948	.888	-1.456	.000.000	-.317	.219
27	.141	.434	.454	-1.108	-.946	-.629	.097
28	.031	.182	.186	-.121	-.453	-.232	.028
29	.002	.110	.144	.074	-.046	-.014	.034
30	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
31	-.023	.151	.195	.182	.109	.055	.067
32	-.028	.127	.245	.243	.128	.073	.045
33	-.023	.146	.195	.228	.187	.092	.073

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.622	.459	-.141	.098	1.075	1.114	-.199
2	-.134	-.538	-.995	.905	1.060	.838	-.262
3	-.244	-.780	-1.022	.836	.945	.683	-.330
4	-.599	-1.060	-1.211	.960	.604	.217	-.302
5	-.739	-1.268	-1.330	.525	.204	-.145	-.353
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.469	-.923	-1.350	.021	-.381	-.245	-.174
11	-.362	-.745	.000.000	-.192	-.548	-.436	-.296
12	-.996	-.393	-.402	-.136	-.392	-.330	-.205
13	-.204	-.226	-.181	-.078	-.224	-.229	-.136
14	-.202	-.164	-.043	.019	-.131	-.188	-.102
15	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
16	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
17	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
18	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
19	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
20	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
21	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
22	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
23	-.216	-.080	.029	.053	-.028	-.073	-.050
24	-.232	.123	.158	.323	.204	.052	.023
25	1.042	.992	.579	-.978	-.178	.423	-.095
26	.804	1.001	.868	-1.010	.000.000	-.066	.296
27	.271	.586	.615	-.667	-.794	-.546	.121
28	.045	.231	.328	-.075	-.362	-.124	.123
29	.014	.135	.221	.194	-.034	.023	.122
30	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
31	-.021	.153	.249	.269	.092	.079	.161
32	.009	.132	.240	.283	.115	.051	.051
33	-.026	.170	.227	.342	.202	.064	.132

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.457	-.072	-.691	.327	1.106	1.132	-.298
2	-.433	-.943	-1.428	.832	1.054	.813	-.415
3	-.638	-1.245	-1.648	.882	.826	.567	-.401
4	-.777	-1.355	-1.653	.741	.475	.091	-.556
5	-.857	-1.445	-1.619	.441	.039	-.217	-.459
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.580	-.949	-1.301	-.129	-.492	-.331	-.298
11	-.387	-.825	.000.000	-.271	-.625	-.481	-.350
12	-.852	-.402	-.408	-.156	-.370	-.323	-.238
13	-.272	-.265	-.199	-.056	-.213	-.208	-.155
14	-.336	-.177	-.108	-.096	-.155	-.234	-.175
15	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
16	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
17	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
18	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
19	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
20	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
21	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
22	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
23	-.385	-.098	.031	.063	-.014	-.075	-.174
24	-.295	.094	.119	.170	.220	.088	-.004
25	1.112	.955	.362	-.651	.077	.540	-.062
26	.921	1.043	.870	-.797	.000.000	.027	.126
27	.355	.824	.636	-.556	-.616	-.459	.056
28	.105	.293	.346	-.033	-.334	-.135	.086
29	.025	.151	.211	.124	-.018	.009	.062
30	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
31	-.039	.141	.226	.234	.113	.081	.052
32	.025	.135	.244	.283	.101	.078	.005
33	-.048	.148	.209	.233	.177	.097	.073

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.192	-.417	-1.354	.447	1.160	1.086	-.421
2	-.660	-1.402	-2.045	.767	.933	.637	-.514
3	-.834	-1.527	-1.936	.667	.636	.350	-.564
4	-1.038	-1.656	-1.947	.524	.306	-.024	-.602
5	-1.038	-1.622	-1.749	.221	-.136	-.389	-.570
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.559	-1.102	-1.308	-.196	-.586	-.386	-.297
11	-.500	-.867	.000.000	-.306	-.668	-.500	-.340
12	-.879	-.458	-.370	-.226	-.443	-.300	-.242
13	-.425	-.296	-.164	-.133	-.238	-.221	-.234
14	-.562	-.222	-.081	-.068	-.129	-.217	-.195
15	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
16	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
17	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
18	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
19	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
20	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
21	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
22	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
23	-.655	-.122	.012	.016	-.028	-.089	-.188
24	-.577	.067	.084	.181	.215	.101	-.033
25	1.075	.803	.071	-.402	.348	.740	-.431
26	.955	1.044	.846	-.700	.000.000	.108	.111
27	.409	.719	.806	-.576	-.534	-.402	.116
28	.117	.356	.428	-.029	-.268	-.170	-.071
29	.014	.182	.288	.006	-.002	-.021	.063
30	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
31	-.070	.166	.303	.156	.096	.068	.059
32	-.035	.129	.255	.185	.111	.074	-.086
33	-.113	.132	.226	.221	.162	.070	.009

Table 19.- Continued.

(a) $C_{T,s} = 0.90$, $q_s = 20.18$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.065	-.729	-1.758	.858	1.137	1.118	-.430
2	-.866	-1.691	-2.491	.678	.798	.556	-.488
3	-1.107	-1.908	-2.495	.616	.572	.385	-.638
4	-1.264	-1.984	-2.472	.493	.169	-.099	-.604
5	-1.227	-1.892	-2.084	.097	-.253	-.434	-.377
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.895	-1.208	-1.357	-.282	-.659	-.316	-.238
11	-.516	-.904	*000.000	-.276	-.715	-.407	-.287
12	-.094	-.445	-.395	-.235	-.448	-.343	-.202
13	-.530	-.347	-.125	-.143	-.270	-.221	-.183
14	-.667	-.266	-.086	-.145	-.162	-.194	-.159
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.886	-.152	-.022	-.008	-.041	-.098	-.193
24	-.731	.060	.037	.146	.194	.040	-.073
25	1.002	.585	-.255	-.080	.562	.749	-.243
26	1.011	1.003	.797	-.446	*000.000	.288	.123
27	.476	.767	.847	-.413	-.379	-.349	.030
28	.148	.387	.489	-.035	-.236	-.159	-.002
29	-.018	.170	.312	.055	0.	.033	.072
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.046	.161	.324	.213	.091	.130	.034
32	.018	.116	.249	.225	.102	.137	-.044
33	-.119	.123	.215	.224	.165	.096	.083

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.353	-1.108	-2.413	.717	1.134	1.077	-.575
2	-1.233	-1.992	-2.917	.661	.658	.566	-.663
3	-1.423	-2.196	-2.986	.663	.372	.294	-.710
4	-1.513	-2.210	-2.724	.287	-.005	-.174	-.642
5	-1.326	-1.940	-2.192	.047	-.379	-.450	-.430
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.804	-1.257	-1.406	-.341	-.736	-.355	-.322
11	-.632	-.947	*000.000	-.549	-.756	-.430	-.287
12	-.850	-.516	-.321	-.278	-.490	-.276	-.275
13	-.650	-.331	-.173	-.185	-.293	-.227	-.211
14	-.786	-.212	-.140	-.148	-.191	-.234	-.220
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-1.146	-.140	-.056	-.043	-.067	-.134	-.213
24	-.939	.054	.023	.141	.180	-.028	-.137
25	.634	.435	-.621	.067	.696	.716	-.333
26	.495	1.028	.811	-.072	*000.000	.261	-.072
27	.547	.814	.872	-.227	-.254	-.326	-.115
28	.186	.399	.516	-.039	-.188	-.092	-.022
29	-.035	.194	.302	.016	-.005	-.001	-.094
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.138	.161	.325	.158	.114	.089	.043
32	-.011	.142	.284	.184	.165	.114	-.025
33	-.180	.124	.220	.193	.163	.068	-.001

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.079	-1.451	-2.740	.859	1.140	.958	-.577
2	-1.619	-2.301	-3.176	.720	.514	.471	-.606
3	-1.738	-2.535	-3.208	.771	.164	.086	-.530
4	-1.681	-2.603	-3.115	.328	-.187	-.295	-.572
5	-1.702	-2.357	-2.523	-.073	-.524	-.486	-.311
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.015	-1.485	-1.432	-.374	-.741	-.328	-.155
11	-.708	-1.016	*000.000	-.598	-.759	-.433	-.188
12	-.808	-.549	-.361	-.237	-.498	-.300	-.128
13	-.759	-.323	-.162	-.174	-.259	-.190	-.148
14	-.948	-.211	-.136	-.149	-.171	-.246	-.108
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-1.318	-.101	-.079	-.041	-.040	-.181	-.045
24	-.987	-.004	.004	-.021	.195	-.096	-.032
25	.618	.205	-.855	.470	.869	.734	-.328
26	.996	.952	.741	.183	*000.000	.262	-.032
27	.598	.790	.860	-.068	-.170	-.179	.102
28	.191	.430	.520	-.019	-.137	-.144	-.010
29	-.018	.156	.339	.089	.051	.050	.040
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.185	.125	.313	.212	.134	.065	.181
32	.023	.084	.298	.243	.139	.096	-.018
33	-.233	.082	.145	.276	.176	.034	.143

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.116	-1.750	-3.137	.728	1.085	1.052	-.571
2	-2.092	-2.761	-3.838	.671	.482	.528	-.508
3	-2.341	-3.019	-3.761	.558	.126	.236	-.613
4	-2.152	-2.751	-3.259	.296	-.231	-.127	-.513
5	-1.784	-2.327	-2.514	-.057	-.619	-.420	-.364
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.084	-1.428	-1.491	-.425	-.845	-.194	-.173
11	-.789	-1.027	*000.000	-.523	-.813	-.320	-.158
12	-.791	-.567	-.424	-.297	-.500	-.148	-.158
13	-.960	-.323	-.199	-.149	-.296	-.191	-.169
14	-1.135	-.201	-.158	-.107	-.216	-.138	-.110
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-1.385	-.145	-.117	.013	-.083	-.179	-.185
24	-.838	-.149	-.028	.233	.149	-.013	.013
25	.432	-.013	-1.020	.459	.845	.761	-.246
26	.909	.943	.660	.466	*000.000	.561	.035
27	.605	.879	.928	-.003	-.130	-.232	-.058
28	.227	.514	.591	.100	-.119	-.038	.131
29	-.081	.209	.339	.193	.028	.069	.109
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.188	.165	.318	.277	.099	.118	.031
32	-.002	.114	.269	.338	.114	-.007	0.
33	-.227	.064	.198	.284	.198	.057	.122

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.501	-2.075	-3.247	.657	.958	.796	-.475
2	-2.612	-3.013	-3.979	.561	.347	.311	-.524
3	-2.662	-3.268	-3.984	.222	.052	.019	-.422
4	-2.546	-2.970	-3.529	-.117	-.314	-.125	-.290
5	-2.107	-2.506	-2.854	-.446	-.717	-.446	-.241
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.347	-1.561	-1.464	-.742	-.816	-.248	-.141
11	-.940	-1.090	*000.000	-.751	-.788	-.348	-.186
12	-.787	-.600	-.443	-.420	-.510	-.300	-.175
13	-1.110	-.386	-.251	-.173	-.317	-.305	-.184
14	-1.335	-.269	-.200	-.145	-.177	-.296	-.125
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-1.482	-.203	-.127	-.061	-.100	-.221	-.212
24	-.903	-.122	-.042	.155	.142	-.082	-.135
25	.021	-.241	-1.203	.669	.844	.582	-.386
26	.846	.902	.866	.621	*000.000	.416	-.199
27	.529	.824	.857	.085	-.072	-.157	-.089
28	.167	.476	.581	.012	-.119	-.124	-.039
29	-.100	.212	.347	.041	.052	.058	.066
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.267	.148	.301	.282	.134	.028	.135
32	-.035	.111	.290	.194	.122	-.082	-.051
33	-.299	.048	.212	.238	.140	-.042	-.004

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.079	-2.448	-3.609	.675	.960	.596	-.440
2	-3.071	-3.284	-4.065	.204	.326	.380	-.281
3	-3.242	-3.492	-4.153	.061	-.020	.115	-.482
4	-3.026	-3.243	-3.705	-.330	-.490	.003	-.177
5	-2.304	-2.754	-2.815	-.603	-.747	-.195	-.158
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.405	-1.648	-1.471	-.888	-.899	-.100	-.178
11	-1.028	-1.211	*000.000	-.823	-.825	-.297	-.213
12	-.774	-.664	-.481	-.425	-.444	-.269	-.123
13	-1.296	-.430	-.333	-.252	-.361	-.147	-.168
14	-1.453	-.379	-.250	-.185	-.234	-.233	-.154
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-1.508	-.283	-.212	-.061	-.178	-.221	-.188
24	-.868	-.194	-.075	.073	.060	-.146	-.089
25	-.378	-.437	-1.414	.884	.956	.598	-.348
26	.638	.801	.625	.715	*000.000	.367	-.108
27	.485	.843	.854	-.005	-.106	-.210	-.036
28	.164	.481	.573	.126	-.112	-.014	.002
29	-.148	.173	.320	.057	-.010	.015	.089
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.193	.150	.318	.207	.096	.089	.140
32	-.048	.079	.249	.233	.088	-.051	-.112
33	-.229	.030	.148	.211	.121	.005	-.007

Table 19.- Continued.

(a) $C_{T,S} = 0.90$, $q_s = 20.18$

$\alpha = 65°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.706	-2.660	-3.743	.620	.989	.690	-.261
2	-3.472	-3.578	-4.376	.179	.443	.452	-.106
3	-3.581	-3.758	-4.298	.043	.087	.502	-.216
4	-3.150	-3.432	-3.773	-.325	-.313	.204	-.180
5	-2.590	-2.892	-2.866	-.619	-.623	.044	-.162
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.445	-1.833	-1.598	-.889	-.776	-.006	-.167
11	-1.006	-1.257	*000.000	-.812	-.708	-.205	-.174
12	-.850	-.745	-.491	-.438	-.409	.044	-.110
13	-1.515	-.522	-.378	-.271	-.241	-.025	-.219
14	-1.513	-.448	-.288	-.146	-.234	-.130	-.261
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-1.325	-.385	-.267	-.037	-.148	-.155	-.243
24	-.895	-.284	-.114	.077	.032	-.091	-.169
25	-.757	-.591	-1.555	.778	.911	.125	-.140
26	.653	.758	.607	.623	*000.000	.175	-.024
27	.476	.805	.902	.043	-.105	-.264	.013
28	.148	.503	.597	.151	-.150	.089	-.021
29	-.077	.179	.360	-.005	-.003	.098	-.058
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.197	.140	.347	.166	.110	.133	-.038
32	.002	.078	.232	.201	.072	.074	-.155
33	-.255	.024	.198	.203	.104	.037	-.055

$\alpha = 70°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.166	-2.913	-3.449	.648	1.045	.098	-.157
2	-4.083	-4.104	-4.706	.126	.439	.217	-.134
3	-4.149	-4.214	-4.561	-.005	.110	.165	-.138
4	-3.456	-3.669	-4.082	-.371	-.178	.030	-.088
5	-2.615	-3.063	-2.973	-.736	-.697	-.097	-.162
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.569	-1.971	-1.597	-1.083	-.728	-.052	-.122
11	-1.047	-1.386	*000.000	-.908	-.623	-.184	-.135
12	-.853	-.788	-.519	-.571	-.431	-.223	-.060
13	-1.414	-.579	-.415	-.307	-.226	-.152	-.060
14	-1.484	-.538	-.375	-.205	-.173	-.052	-.116
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-1.171	-.505	-.314	-.106	-.105	-.100	-.113
24	-.893	-.299	-.128	.060	-.019	-.130	-.151
25	-1.277	-.629	-1.579	.925	1.016	.119	-.092
26	.491	.774	.629	.432	*000.000	.044	.072
27	.441	.815	.900	.005	-.148	-.301	.063
28	.156	.456	.593	.018	-.145	-.092	-.005
29	-.110	.144	.378	-.028	.006	-.064	.127
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.262	.117	.337	.065	.126	.076	.007
32	.014	.106	.241	.134	.086	.010	-.028
33	-.188	-.002	.167	.095	.109	.116	.039

$\alpha = 75°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.524	-3.301	-3.984	.560	.991	-.227	.031
2	-4.383	-4.709	-4.921	.048	.481	-.130	.035
3	-4.419	-4.799	-4.769	-.273	.245	-.031	.059
4	-3.831	-4.246	-4.201	-.490	-.277	.332	-.115
5	-2.816	-3.442	-3.138	-.857	-.684	-.006	.042
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.550	-2.005	-1.638	-1.113	-.746	-.013	.012
11	-1.122	-1.434	*000.000	-.955	-.691	-.067	-.002
12	-.973	-.805	-.593	-.509	-.423	-.094	.004
13	-1.449	-.610	-.436	-.222	-.256	-.165	-.021
14	-1.367	-.571	-.469	-.175	-.237	-.148	.043
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-1.053	-.473	-.352	-.134	-.243	-.120	-.021
24	-.947	-.212	-.144	.086	-.032	-.036	-.062
25	-1.633	-1.007	-1.736	.983	.803	-.085	.052
26	.205	.718	.545	.820	*000.000	-.149	0.
27	.249	.820	.858	.101	-.167	-.128	.048
28	.038	.435	.581	.022	-.147	.051	-.013
29	-.178	.155	.381	.004	-.005	-.027	.110
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.237	.142	.304	.189	.047	-.064	.167
32	.002	.079	.263	.166	.048	-.091	.134
33	-.279	.043	.172	.193	.037	.054	.269

$\alpha = 80°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-4.078	-3.993	-4.479	.726	1.143	-.199	0.
2	-4.853	-5.248	-5.234	-.048	.609	-.282	-.106
3	-4.179	-4.810	-4.684	-.111	.268	-.049	-.084
4	-3.628	-4.278	-4.074	-.497	-.224	-.160	-.132
5	-2.848	-3.706	-3.257	-.839	-.380	-.189	-.002
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.465	-2.208	-1.697	-1.233	-.875	-.110	-.068
11	-1.122	-1.458	*000.000	-.957	-.648	-.117	-.138
12	-.955	-.828	-.582	-.629	-.398	-.089	-.195
13	-1.582	-.640	-.474	-.304	-.235	-.060	-.135
14	-1.436	-.585	-.434	-.246	-.196	-.131	-.010
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-1.048	-.408	-.327	-.119	-.194	-.104	-.314
24	-.919	-.168	-.087	.053	-.074	-.060	-.096
25	-2.204	-1.426	-1.934	.914	.897	-.153	-.183
26	-.002	.640	.481	.658	*000.000	-.047	-.168
27	.071	.791	.849	.026	-.310	-.028	-.024
28	-.028	.679	.602	.077	-.171	-.076	-.142
29	-.165	.164	.392	-.035	.030	.032	-.060
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.198	.174	.327	.129	.053	.106	.072
32	.009	.124	.276	.152	.040	-.010	.208
33	-.143	.040	.204	.082	.029	-.163	-.014

Table 19. - Continued.

(b) $C_{T,S} = 0.80$, $q_s = 19.96$

$\alpha = 5°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	1.426	.927	.741	-.077	.804	1.126	.239
2	.855	.295	.267	.895	1.211	1.091	.065
3	.538	-.103	-.099	.901	1.166	.921	-.044
4	.543	-.429	-.487	.842	.862	.527	-.056
5	-.065	-.763	-.881	.883	.467	.069	-.176
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.087	-.718	-.949	-.088	-.217	-.128	-.187
11	-.073	-.750	*000.000	-.421	-.531	-.427	-.389
12	-.455	-.432	-.419	-.269	-.382	-.284	-.263
13	.188	-.226	-.211	-.090	-.243	-.196	-.198
14	.289	-.098	-.032	-.156	-.152	-.146	-.180
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	.325	.015	.058	-.069	-.067	-.040	-.080
24	.371	.199	.204	.174	.202	.040	.008
25	1.382	1.053	.850	-2.088	-1.440	.086	.104
26	.837	.713	.540	-2.052	*000.000	-.723	-.001
27	.293	.111	.032	-1.261	-1.204	-.829	-.078
28	.259	-.007	-.011	-.112	-.568	-.323	-.065
29	.340	.035	.071	.070	-.063	-.036	.014
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	.371	.102	.194	.183	.060	.070	-.003
32	.359	.132	.198	.212	.135	.061	-.000
33	.359	.167	.209	.196	.196	.083	.033

$\alpha = 10°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.894	.606	.457	.220	1.020	1.150	.186
2	.223	-.154	-.234	.831	1.156	.906	.001
3	-.032	-.391	-.471	.871	1.046	.799	-.113
4	-.402	-.714	-.773	.843	.703	.332	-.305
5	-.647	-.970	-.937	.561	.257	-.075	-.314
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.553	-.894	-1.087	-.240	-.432	-.339	-.234
11	-.475	-.853	*000.000	-.499	-.505	-.506	-.430
12	-.857	-.449	-.416	-.379	-.438	-.328	-.234
13	-.152	-.233	-.183	-.213	-.245	-.247	-.295
14	-.124	-.153	-.147	-.134	-.173	-.220	-.128
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.100	-.030	.034	-.059	-.049	-.079	-.118
24	-.079	.152	.156	.188	.236	.083	.049
25	1.041	1.148	.789	-1.313	-.235	.390	.240
26	.598	.915	.766	-1.155	*000.000	-.270	.323
27	.138	.301	.178	-1.117	-.540	-.562	.014
28	-.052	.093	.183	-.123	-.412	-.248	.031
29	-.035	.086	.115	-.013	-.015	.005	.139
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.032	.145	.197	.124	.163	.048	.141
32	-.010	.144	.230	.209	.136	.081	.012
33	-.014	.173	.195	.236	.194	.072	.101

$\alpha = 15°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.748	.213	-.313	.488	1.144	1.142	-.019
2	-.024	-.805	-.868	.773	1.020	.813	-.251
3	-.383	-1.015	-1.232	.613	.839	.560	-.290
4	-.694	-1.295	-1.304	.720	.414	-.005	-.518
5	-.917	-1.332	-1.285	.209	-.002	-.270	-.470
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.630	-.984	-1.128	-.250	-.497	-.355	-.240
11	-.501	-.892	*000.000	-.548	-.674	-.582	-.378
12	-.882	-.476	-.354	-.357	-.457	-.394	-.251
13	-.175	-.269	-.149	-.145	-.258	-.308	-.280
14	-.144	-.165	.002	-.087	-.138	-.221	-.085
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.184	-.046	.043	-.029	-.030	-.087	-.084
24	-.178	.143	.201	.161	.222	.112	.000
25	1.114	1.036	.845	-.736	.435	.659	.187
26	.745	.975	.824	-.879	*000.000	.029	.362
27	.194	.504	.590	-.721	-.705	-.464	.100
28	.052	.202	.319	-.060	-.335	-.180	.150
29	-.014	.136	.243	.100	-.014	.068	.120
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	.023	.158	.269	.252	.114	.105	.153
32	.015	.140	.276	.239	.130	.096	.108
33	-.019	.160	.259	.235	.194	.152	.179

$\alpha = 20°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.232	-.235	-1.052	.624	1.197	1.212	-.254
2	-.506	-1.175	-1.630	.596	.875	.665	-.519
3	-.744	-1.511	-1.873	.663	.641	.374	-.401
4	-1.016	-1.689	-1.930	.643	.262	-.112	-.722
5	-1.140	-1.673	-1.704	.080	-.196	-.475	-.770
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.750	-1.122	-1.311	-.366	-.670	-.487	-.457
11	-.524	-.911	*000.000	-.550	-.747	-.582	-.408
12	-1.034	-.508	-.432	-.363	-.518	-.355	-.305
13	-.283	-.278	-.105	-.175	-.303	-.236	-.258
14	-.299	-.141	-.083	-.084	-.193	-.233	-.221
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.475	-.058	-.047	-.029	-.027	-.062	-.149
24	-.421	.127	.087	.183	.209	.184	.035
25	1.120	.906	.093	-.222	.534	.988	.102
26	.441	1.094	.776	-.406	*000.000	.344	.294
27	.250	.669	.709	-.370	-.449	-.224	.140
28	.020	.278	.347	-.098	-.255	-.098	.044
29	.007	.178	.200	.005	.005	.120	.084
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.103	.177	.275	.214	.133	.198	.095
32	-.035	.138	.218	.218	.141	.131	-.020
33	-.081	.162	.233	.253	.202	.186	.070

$\alpha = 25°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.280	-.779	-1.852	.603	1.137	1.101	-.471
2	-.712	-1.746	-2.380	.413	.616	.291	-.411
3	-.842	-1.982	-2.400	.372	.321	-.085	-.930
4	-1.043	-2.063	-2.445	.081	-.130	-.550	-1.010
5	-1.170	-1.991	-2.059	-.128	-.526	-.765	-.920
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.771	-1.316	-1.425	-.410	-.870	-.642	-.662
11	-.516	-.952	*000.000	-.562	-.878	-.697	-.542
12	-.790	-.487	-.328	-.350	-.509	-.419	-.359
13	-.305	-.250	-.157	-.166	-.308	-.340	-.280
14	-.295	-.128	-.081	-.117	-.169	-.258	-.212
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.416	-.079	-.068	-.037	-.017	-.171	-.290
24	-.555	.092	0.	.160	.200	.071	-.040
25	1.091	.849	-.460	.337	.831	1.058	-.089
26	1.130	1.055	.704	.337	*000.000	.501	.288
27	.570	.416	.860	-.048	-.203	-.131	.091
28	.064	.411	.512	.007	-.127	-.104	.030
29	.071	.202	.322	-.018	.035	.140	.069
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.073	.208	.332	.223	.133	.144	.035
32	.073	.158	.284	.234	.139	.188	-.087
33	-.052	.159	.233	.244	.182	.157	.149

$\alpha = 30°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.704	-1.384	-2.803	.728	1.039	.980	-.643
2	-.576	-2.394	-3.338	.302	.309	.053	-.810
3	-.415	-2.604	-3.215	.271	-.111	-.181	-.998
4	-.668	-2.586	-3.165	-.058	-.474	-.746	-1.088
5	-.549	-2.320	-2.521	-.316	-.859	-.952	-.990
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.019	-1.414	-1.442	-.642	-1.010	-.696	-.519
11	.217	-.914	*000.000	-.685	-.913	-.712	-.485
12	.189	-.435	-.325	-.269	-.550	-.397	-.352
13	.457	-.199	-.218	-.094	-.304	-.319	-.195
14	.373	-.116	-.177	-.074	-.167	-.282	-.172
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	.177	-.072	-.102	-.005	-.031	-.118	-.005
24	.005	-.060	-.116	.259	.178	.106	.144
25	1.808	.301	-.746	.647	1.040	1.220	-.182
26	1.950	1.034	.717	.647	*000.000	.735	.211
27	1.431	.595	.567	.210	.022	.005	.104
28	1.082	.507	.614	.245	-.037	.008	.204
29	.885	.232	.332	.172	.063	.148	.236
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	.814	.199	.312	.258	.214	.249	.261
32	.935	.159	.304	.296	.183	.143	.056
33	.995	.120	.150	.341	.262	.172	.195

Table 19.- Continued.

(b) $C_{T,s} = 0.80$, $q_s = 19.96$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.761	-2.028	-3.492	.518	.828	.828	-.929
2	-.927	-3.080	-4.364	-.040	-.016	-.117	-1.121
3	-1.204	-3.165	-4.004	-.164	-.491	-.482	-1.274
4	-1.073	-3.025	-3.708	-.471	-.770	-.897	-1.179
5	-1.078	-2.507	-2.862	-.435	-1.083	-1.182	-1.042
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.413	-1.430	-1.500	-.872	-1.153	-.703	-.438
11	-.648	-.959	*000.000	-.803	-.999	-.695	-.490
12	-.755	-.447	-.391	-.428	-.608	-.475	-.230
13	-.035	-.208	-.233	-.272	-.372	-.415	-.214
14	-.055	-.129	-.176	-.229	-.235	-.378	-.140
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.368	-.103	-.166	-.061	-.104	-.219	-.212
24	-.243	-.033	-.075	.013	.126	.052	-.015
25	1.342	-.106	-1.431	.848	1.147	1.282	-.663
26	1.660	1.045	.685	.922	*000.000	.778	.156
27	1.161	.972	.992	.332	.152	.009	.109
28	.639	.581	.852	.013	.012	-.029	.109
29	.095	.290	.381	.118	.090	.095	.252
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	.516	.245	.400	.251	.175	.148	.203
32	.534	.181	.269	.300	.154	.172	.120
33	.508	.099	.177	.290	.183	.146	.269

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.441	-2.422	-4.160	.321	.678	.757	-1.210
2	-1.460	-3.860	-4.824	-.389	-.245	-.317	-1.438
3	-1.582	-3.913	-4.777	-.673	-.739	-.607	-1.388
4	-1.525	-3.494	-4.130	-.792	-1.061	-1.048	-1.328
5	-1.300	-2.806	-2.993	-.838	-1.350	-1.137	-1.170
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.571	-1.635	-1.586	-1.178	-1.264	-.534	-.383
11	-.241	-1.059	*000.000	-.969	-1.106	-.531	-.368
12	-.209	-.485	-.467	-.467	-.699	-.403	-.332
13	-.143	-.227	-.279	-.296	-.379	-.227	-.332
14	-.293	-.184	-.239	-.191	-.232	-.186	-.281
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.793	-.124	-.158	-.103	-.090	-.091	-.098
24	-.275	-.112	-.078	.139	.135	.048	-.101
25	1.073	-.521	-1.849	.885	1.115	1.172	-.750
26	1.680	.935	.593	1.017	*000.000	.957	-.052
27	1.298	.997	.939	.456	.349	.176	.010
28	.462	.600	.890	-.024	.133	.168	.080
29	.580	.283	.907	.177	.181	.225	.129
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	.553	.209	.346	.296	.220	.266	.148
32	.612	.135	.302	.270	.190	.259	.019
33	.331	.083	.194	.229	.191	.224	.084

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.365	-3.490	-4.951	.120	.382	.703	-1.277
2	-.767	-4.616	-5.774	-.818	-.594	-.250	-1.214
3	-1.514	-4.389	-5.301	-1.040	-1.037	-.514	-1.165
4	-1.518	-4.035	-4.573	-1.304	-1.399	-1.011	-1.138
5	-1.115	-3.289	-3.586	-1.317	-1.646	-1.103	-.984
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.033	-1.775	-1.647	-1.364	-1.383	-.515	-.268
11	.221	-1.178	*000.000	-1.106	-1.207	-.543	-.285
12	-.122	-.570	-.477	-.604	-.714	-.286	-.328
13	.184	-.354	-.287	-.348	-.462	-.342	-.273
14	-.130	-.269	-.258	-.209	-.295	-.181	-.207
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.443	-.213	-.190	-.106	-.147	-.185	-.197
24	.179	-.170	-.087	.127	.049	.031	-.009
25	1.451	-1.037	-2.404	.999	1.146	1.190	-.873
26	2.301	.838	.550	1.071	*000.000	1.114	-.059
27	1.921	.999	1.004	.567	.443	.220	.154
28	1.424	.834	.749	.003	.162	.175	.204
29	1.172	.275	.450	.130	.143	.161	.186
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	1.028	.208	.425	.226	.218	.439	.181
32	1.184	.154	.342	.284	.170	.305	.058
33	.893	.038	.215	.217	.148	.134	.139

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.459	-4.253	-5.720	-1.132	.177	.431	-1.251
2	-3.263	-5.063	-5.942	-1.138	-.965	-.414	-1.200
3	-3.097	-4.993	-5.649	-1.084	-1.342	-.685	-.822
4	-3.028	-4.420	-5.039	-1.725	-1.622	-1.239	-.911
5	-2.332	-3.515	-3.678	-1.666	-1.720	-1.150	-.867
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.403	-1.973	-1.790	-1.500	-1.488	-.554	-.192
11	-1.107	-1.272	*000.000	-1.193	-1.210	-.521	-.303
12	-.857	-.679	-.501	-.641	-.687	-.350	-.183
13	-1.187	-.477	-.395	-.389	-.464	-.374	-.299
14	-1.266	-.393	-.281	-.267	-.290	-.298	-.239
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-1.413	-.353	-.236	-.103	-.177	-.236	-.259
24	-1.137	-.264	-.071	.143	.115	-.062	-.208
25	-.176	-1.440	-2.690	.901	1.176	1.178	-.950
26	1.029	.770	.447	1.039	*000.000	.954	-.136
27	.747	1.021	1.028	.674	.540	.282	.152
28	.106	.653	.776	-.021	.161	.123	.272
29	.046	.288	.490	.192	.151	.068	.116
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.534	.172	.431	.240	.220	.237	.156
32	.057	.115	.340	.262	.220	.181	-.003
33	-.211	.052	.241	.285	.197	.194	.111

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.215	-4.580	-5.768	-.254	.137	.369	-1.422
2	-3.605	-5.850	-6.768	-1.329	-.944	-.405	-.993
3	-3.493	-5.553	-6.133	-1.767	-1.614	-.972	-1.141
4	-2.950	-4.719	-5.085	-1.701	-1.713	-1.082	-.901
5	-2.381	-3.792	-3.707	-1.782	-1.824	-1.016	-.591
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.006	-1.475	-1.725	-1.546	-1.436	-.409	-.282
11	-.782	-1.299	*000.000	-1.175	-1.126	-.446	-.216
12	-.381	-.684	-.532	-.714	-.648	-.291	-.326
13	-1.026	-.503	-.397	-.316	-.426	-.324	-.349
14	-1.390	-.477	-.360	-.206	-.350	-.361	-.446
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-1.134	-.346	-.235	-.027	-.192	-.198	-.394
24	-.604	-.261	-.120	.067	.075	-.059	-.269
25	-.300	-1.849	-3.005	-.922	1.153	1.013	-.809
26	1.339	.757	.450	.977	*000.000	.994	-.191
27	1.215	1.159	1.092	.810	.620	.303	.111
28	.843	.770	.890	.116	.292	.195	.072
29	.473	.313	.516	.183	.194	.103	.050
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	.355	.231	.440	.298	.205	.203	.045
32	.639	.142	.388	.344	.215	.205	-.062
33	.360	.101	.302	.297	.265	.185	.220

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.985	-5.605	-6.381	-.637	-.143	.209	-1.024
2	-4.723	-6.365	-6.847	-1.757	-1.228	-.573	-.701
3	-4.631	-6.252	-6.271	-1.910	-1.599	-.868	-.956
4	-3.940	-5.278	-5.247	-2.116	-1.743	-.855	-.666
5	-2.916	-4.008	-3.803	-2.026	-1.829	-.783	-.508
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.541	-2.167	-1.795	-1.675	-1.394	-.399	-.296
11	-.968	-1.375	*000.000	-1.303	-1.180	-.388	-.448
12	-.850	-.747	-.567	-.752	-.655	-.330	-.369
13	-1.619	-.528	-.397	-.371	-.395	-.262	-.283
14	-1.708	-.474	-.349	-.205	-.304	-.232	-.265
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-1.176	-.369	-.208	-.038	-.192	-.157	-.258
24	-.959	-.230	-.125	.080	-.058	-.097	-.180
25	-1.540	-2.393	-3.361	.821	1.061	.609	-1.104
26	.590	.769	.380	1.265	*000.000	.732	-.235
27	.577	1.087	1.052	.785	.658	.268	.075
28	.308	.773	.908	.057	.238	.194	.162
29	.062	.311	.541	.204	.185	.160	.089
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	.016	.303	.498	.334	.283	.212	.050
32	.182	.238	.430	.309	.254	.211	-.092
33	-.028	.107	.285	.242	.215	.163	.056

Table 19.- Continued.

(b) $C_{T,s} = 0.80$, $q_s = 19.96$

$\alpha = 65°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-5.019	-6.216	-6.493	-.822	-.198	.163	-.877
2	-5.252	-6.863	-6.706	-1.822	-1.101	-.365	-.592
3	-5.117	-6.802	-6.516	-2.119	-1.627	-.565	-.700
4	-4.361	-5.459	-5.427	-2.201	-1.742	-.533	-.504
5	-3.053	-4.296	-3.760	-2.097	-1.761	-.633	-.361
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.603	-2.310	-1.872	-1.793	-1.390	-.287	-.171
11	-1.122	-1.423	.000.000	-1.349	-.946	-.274	-.238
12	-1.032	-.853	-.586	-.793	-.548	-.252	-.178
13	-1.024	-.750	-.521	-.508	-.317	-.262	-.189
14	-1.734	-.659	-.495	-.379	-.353	-.289	-.267
15	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
16	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
17	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
18	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
19	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
20	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
21	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
22	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
23	-1.518	-.445	-.405	-.201	-.269	-.222	-.240
24	-1.043	-.270	-.142	-.058	-.060	-.141	-.197
25	-2.841	-2.957	-3.469	.717	1.045	.540	-.708
26	-.135	.488	.408	.808	.000.000	.480	-.184
27	.142	.961	1.053	.757	.698	.199	.072
28	.004	.587	.815	.002	.210	.110	.100
29	-.132	.269	.557	.200	.108	.132	.148
30	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
31	-.248	.172	.423	.163	.202	.135	.060
32	-.044	.089	.302	.165	.095	.132	-.048
33	-.232	.016	.168	.115	.157	.098	.153

$\alpha = 70°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-4.422	-5.012	-5.446	-.841	-.073	.051	-.618
2	-4.745	-7.220	-5.725	-1.801	-1.063	-.157	-.409
3	-4.742	-7.098	-5.406	-2.271	-1.615	-.363	-.531
4	-3.763	-6.103	-5.526	-2.300	-1.611	-.152	-.277
5	-2.223	-4.688	-4.065	-2.220	-1.914	-.633	-.514
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.276	-2.403	-1.939	-1.413	-1.696	-.252	-.128
11	-.848	-1.147	.000.000	-1.243	-.933	-.393	-.314
12	-.656	-.918	-.719	-.842	-.655	-.345	-.351
13	-1.421	-.703	-.528	-.488	-.399	-.267	-.256
14	-1.121	-.521	-.508	-.280	-.269	-.267	-.306
15	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
16	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
17	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
18	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
19	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
20	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
21	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
22	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
23	-.744	-.321	-.327	-.173	-.242	-.205	-.256
24	-.612	-.167	-.143	-.023	-.127	-.142	-.256
25	-3.458	-3.678	-3.499	.680	1.050	.365	-.393
26	-.393	.106	.326	.674	.000.000	.340	-.224
27	.046	.672	.926	.756	.512	.016	.038
28	.174	.524	.836	.014	.222	.042	.124
29	.040	.223	.456	.201	.150	.088	.126
30	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
31	.050	.200	.298	.280	.213	.155	.101
32	.169	.167	.208	.238	.151	.148	-.064
33	.127	.103	.151	.228	.172	.168	.154

$\alpha = 75°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-5.231	-6.820	-6.116	-.473	.426	.427	-.077
2	-5.030	-7.509	-6.611	-1.781	-.646	.037	-.231
3	-4.554	-7.373	-6.443	-2.020	-1.116	-.001	-.067
4	-3.436	-6.037	-5.265	-2.193	-1.190	-.180	-.168
5	-2.198	-4.121	-3.616	-1.974	-1.143	-.323	-.146
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.238	-2.176	-1.773	-1.682	-1.146	-.249	-.107
11	-.896	-1.239	.000.000	-1.217	-.704	-.244	-.190
12	-1.017	-.884	-.699	-.762	-.510	-.292	-.204
13	-1.371	-.670	-.523	-.405	-.250	-.204	-.274
14	-1.148	-.494	-.434	-.337	-.260	-.290	-.282
15	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
16	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
17	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
18	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
19	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
20	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
21	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
22	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
23	-.878	-.374	-.372	-.163	-.215	-.205	-.121
24	-.692	-.219	-.120	.021	-.012	-.083	-.005
25	-3.990	-3.882	-3.137	.720	1.012	.257	-.129
26	-.769	-.131	.315	1.172	.000.000	.215	.151
27	-.290	.414	.907	.725	.485	.052	.157
28	-.028	.409	.784	.094	.207	.187	.197
29	-.089	.251	.430	.164	.198	.148	.232
30	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
31	-.095	.215	.282	.249	.250	.174	.142
32	.014	.165	.218	.224	.174	.158	.019
33	-.009	.119	.158	.204	.157	.133	.191

$\alpha = 80°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-2.879	-3.385	-4.011	-.772	.335	-.328	-.282
2	-2.873	-3.111	-4.909	-1.638	-.156	-.172	-.378
3	-2.014	-3.482	-4.742	-1.826	-.488	-.212	-.215
4	-1.741	-1.630	-2.985	-2.258	-1.074	-.207	-.259
5	-1.525	-1.690	-2.707	-2.030	-1.145	-.117	-.200
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.089	-1.078	-1.019	-1.556	-.607	-.009	-.180
11	-1.031	-1.182	.000.000	-1.181	-.588	-.225	-.264
12	-1.130	-.891	-.938	-.681	-.314	-.172	-.246
13	-.915	-.675	-.658	-.481	-.314	-.321	-.389
14	-.757	-.697	-.533	-.382	-.306	-.292	-.331
15	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
16	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
17	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
18	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
19	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
20	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
21	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
22	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
23	-.805	-.507	-.341	-.246	-.313	-.257	-.286
24	-.645	-.422	-.202	-.073	-.208	-.280	-.295
25	-2.622	-2.699	-2.373	.827	1.026	.008	-.169
26	-.703	-.288	.451	.920	.000.000	-.146	-.243
27	-.319	.259	.824	.645	.264	-.071	-.182
28	-.100	.261	.662	.003	.094	.036	-.048
29	-.083	.169	.301	.119	.167	.115	.074
30	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
31	-.115	.173	.199	.266	.198	.106	.083
32	.017	.159	.228	.259	.188	.120	-.015
33	-.086	.058	.144	.154	.114	.029	.039

Table 19. - Continued.

(c) $C_{T,S} \approx 0.60$, $q_s = 22.47$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.568	.903	.663	.552	1.079	1.168	.491
2	.572	.316	.271	.519	1.115	.953	.308
3	.264	-.091	.047	.817	.963	.730	.119
4	-.009	-.370	-.325	.582	.833	.366	-.072
5	-.751	-.695	-.630	.159	.119	-.142	-.294
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.457	-.837	-1.003	-.334	-.476	-.347	-.355
11	-.471	-.856	*000.000	-.655	-.734	-.629	-.570
12	-.690	-.501	-.430	-.452	-.534	-.497	-.387
13	-.084	-.275	-.182	-.246	-.322	-.332	-.247
14	-.072	-.149	-.057	-.181	-.227	-.278	-.176
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	.019	.026	.051	-.088	-.112	-.108	-.105
24	.126	.183	.141	-.073	.184	.097	.016
25	.849	1.077	.597	-.863	.078	.372	.285
26	.494	.603	.361	-1.309	*000.000	-.426	.056
27	-.610	-.055	-.171	-.891	-1.039	-.794	-.281
28	-.038	-.124	-.159	-.116	-.496	-.339	-.239
29	.088	-.003	.011	.028	-.077	-.055	-.009
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	.095	.064	.122	.028	.054	.045	.024
32	.116	.092	.143	.072	.076	.021	.012
33	.159	.159	.192	.101	.151	.058	.024

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.780	.518	.113	.551	1.220	1.154	.439
2	.183	-.197	-.316	.511	.903	.655	.020
3	-.123	-.702	-.807	.504	.656	.403	-.149
4	-.572	-1.148	-1.032	.136	.221	-.106	-.349
5	-.744	-1.252	-1.094	-.255	-.231	-.574	-.675
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.598	-.984	-1.103	-.691	-.690	-.531	-.560
11	-.523	-.940	*000.000	-.764	-.819	-.738	-.630
12	-.860	-.506	-.447	-.511	-.553	-.508	-.404
13	-.199	-.284	-.159	-.265	-.296	-.334	-.293
14	-.143	-.124	-.040	-.219	-.212	-.264	-.216
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.060	-.017	.025	-.086	-.062	-.133	-.121
24	-.069	.132	.086	.126	.193	.100	.024
25	1.171	1.120	.553	-.025	.422	.805	.484
26	.743	.912	.618	.030	*000.000	.117	.213
27	.138	.213	.122	-.540	-.618	-.430	-.109
28	.040	.044	.054	-.090	-.359	-.248	-.102
29	.078	.059	.100	.052	-.007	-.011	-.001
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	.055	.121	.191	.129	.122	.106	.028
32	.058	.118	.192	.141	.125	.086	.004
33	.064	.135	.177	.160	.194	.116	.081

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.558	-.028	-.495	.493	1.157	1.048	.238
2	-.303	-1.104	-1.260	.490	.622	.321	-.420
3	-.553	-1.342	-1.363	.458	.638	-.073	-.609
4	-.888	-1.554	-1.455	-.074	-.178	-.528	-.933
5	-.987	-1.539	-1.389	-.406	-.610	-.807	-.856
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.915	-1.310	-1.357	-.927	-1.130	-.832	-.838
11	-.727	-1.091	*000.000	-.849	-1.057	-.972	-.864
12	-.962	-.539	-.410	-.518	-.649	-.615	-.552
13	-.211	-.242	-.125	-.193	-.291	-.343	-.268
14	-.229	-.131	-.032	-.126	-.177	-.250	-.266
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.211	-.018	.015	-.020	-.081	-.081	-.147
24	-.249	.090	.095	.157	.172	.128	.036
25	1.111	.978	.379	.158	.945	1.093	.518
26	.871	.969	.623	.198	*000.000	.576	.525
27	.295	.495	.409	-.124	-.242	-.041	.171
28	.065	.207	.279	.003	-.171	-.075	.060
29	-.011	.119	.200	.120	.016	.067	.115
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.027	.148	.217	.234	.142	.146	.021
32	.022	.119	.237	.244	.138	.165	.035
33	-.054	.122	.213	.231	.166	.163	.001

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.107	-.844	-1.783	.224	.867	.666	-.468
2	-.760	-1.774	-2.074	-.436	.052	-.374	-1.117
3	-1.056	-2.067	-2.300	-.226	-.299	-.643	-1.197
4	-1.396	-2.270	-2.262	-.617	-.748	-1.233	-1.516
5	-1.314	-2.107	-1.973	-.820	-1.077	-1.350	-1.352
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.020	-1.473	-1.537	-1.072	-1.369	-1.136	-1.345
11	-.683	-1.041	*000.000	-.858	-1.083	-1.014	-.857
12	-.861	-.487	-.295	-.508	-.625	-.628	-.537
13	-.263	-.191	-.145	-.247	-.311	-.369	-.399
14	-.247	-.136	-.117	-.192	-.178	-.297	-.323
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.350	-.058	-.029	-.064	-.025	-.126	-.197
24	-.682	.010	-.001	.137	.126	.109	.009
25	1.110	.705	-.130	.145	1.090	1.315	.394
26	.995	.989	.598	.474	*000.000	.860	.530
27	.510	.775	.685	.208	.046	.157	.180
28	.190	.353	.424	-.021	-.019	.049	.082
29	.049	.179	.272	.157	.094	.149	.120
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.035	.175	.315	.227	.187	.242	.131
32	.038	.233	.234	.248	.152	.193	-.013
33	-.122	.128	.200	.222	.178	.168	.147

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.431	-1.938	-3.251	-.319	.403	.296	-1.230
2	-1.543	-2.822	-3.578	-1.044	-.605	-.846	-1.592
3	-1.691	-3.028	-3.507	-1.062	-1.081	-1.259	-1.910
4	-1.709	-2.809	-3.236	-1.147	-1.394	-1.773	-1.908
5	-1.710	-2.595	-2.764	-1.286	-1.730	-1.835	-1.784
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.143	-1.610	-1.678	-1.240	-1.545	-1.213	-1.334
11	-.805	-1.071	*000.000	-.998	-1.291	-1.188	-1.005
12	-.811	-.408	-.350	-.585	-.699	-.684	-.590
13	-.323	-.153	-.214	-.247	-.299	-.416	-.429
14	-.430	-.148	-.216	-.202	-.206	-.364	-.423
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.561	-.121	-.192	-.107	-.058	-.125	-.173
24	-1.041	-.144	-.096	.164	.035	.087	-.026
25	.861	.099	-1.109	.154	1.130	1.284	.058
26	1.017	1.008	.658	.449	*000.000	1.057	.534
27	.635	.898	.836	.508	.299	.397	.305
28	.264	.520	.571	-.026	.143	.159	.183
29	.048	.240	.368	.194	.139	.220	.263
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.051	.209	.325	.273	.221	.261	.253
32	.018	.166	.288	.251	.187	.240	-.020
33	-.142	.106	.205	.274	.185	.170	.181

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.035	-2.940	-4.358	-.926	-.147	-.109	-1.920
2	-2.016	-3.644	-4.594	-1.697	-1.265	-1.450	-2.315
3	-2.378	-4.056	-4.768	-1.726	-1.872	-1.870	-2.400
4	-2.344	-3.859	-4.388	-1.990	-2.120	-2.455	-2.681
5	-1.980	-2.925	-3.165	-1.881	-2.195	-2.213	-2.124
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.378	-1.911	-1.893	-1.794	-2.046	-1.597	-1.809
11	-.833	-1.038	*000.000	-1.185	-1.442	-1.245	-1.057
12	-.720	-.416	-.489	-.638	-.719	-.643	-.628
13	-.422	-.327	-.332	-.402	-.338	-.472	-.558
14	-.453	-.255	-.289	-.282	-.205	-.373	-.442
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.737	-.180	-.204	-.182	-.109	-.168	-.320
24	-1.428	-.131	-.085	.054	-.057	-.026	-.092
25	.525	-.642	-1.848	.072	1.206	1.181	-.601
26	1.147	.947	.636	.555	*000.000	1.284	.370
27	.785	.987	.957	.707	.675	.570	.298
28	.319	.589	.675	-.038	.317	.255	.207
29	.083	.318	.504	.208	.250	.296	.253
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.087	.246	.439	.268	.201	.290	.278
32	.017	.153	.343	.225	.218	.259	-.054
33	-.171	.072	.203	.276	.172	.148	.136

Table 19. - Continued.

(c) $C_{T,s} = 0.60$, $q_s = 22.47$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.220	-2.272	-2.982	-.977	-.488	-.441	-2.327
2	-2.401	-3.535	-3.956	-2.075	-1.870	-1.782	-2.594
3	-2.445	-2.930	-3.096	-2.200	-2.321	-2.254	-2.594
4	-2.348	-2.612	-2.128	-2.118	-2.445	-2.504	-2.482
5	-2.463	-3.532	-3.804	-2.241	-2.762	-2.605	-2.252
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.135	-.421	-.718	-1.742	-2.044	-1.371	-1.309
11	-.885	-.837	*000.000	-1.231	-1.509	-1.022	-.794
12	-.704	-.580	-.683	-.696	-.822	-.755	-.691
13	-.459	-.457	-.554	-.397	-.380	-.466	-.430
14	-.525	-.553	-.540	-.461	-.272	-.416	-.449
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-1.078	-.675	-.523	-.223	-.190	-.221	-.250
24	-.918	-.601	-.424	-.126	-.049	-.003	-.099
25	.252	-.720	-1.482	.502	1.124	1.069	-1.009
26	.980	.849	.636	1.105	*000.000	1.267	.199
27	.769	1.022	1.001	.919	.849	.686	.285
28	.311	.957	.764	.028	.354	.393	.241
29	.028	.309	.436	.233	.266	.318	.353
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.131	.249	.404	.317	.294	.404	.375
32	-.047	.115	.279	.253	.202	.262	.031
33	-.147	-.019	.127	.238	.153	.176	.286

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.278	-3.259	-3.727	-1.843	-1.237	-.897	-2.693
2	-2.295	-3.548	-3.880	-3.255	-2.776	-2.435	-2.695
3	-2.247	-3.329	-3.174	-2.891	-2.948	-2.489	-2.420
4	-1.928	-2.269	-1.655	-2.728	-2.994	-2.780	-2.223
5	-1.345	-1.307	-.848	-2.433	-2.831	-2.525	-1.902
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.362	-.777	-.739	-1.988	-2.157	-1.214	-.971
11	.135	-.660	*000.000	-1.403	-1.045	-1.005	-.749
12	.030	-.604	-.698	-.815	-.914	-.584	-.592
13	.085	-.499	-.839	-.658	-.579	-.534	-.457
14	-.078	-.666	-.627	-.467	-.359	-.431	-.318
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.242	-.762	-.594	-.310	-.206	-.302	-.260
24	-.161	-.670	-.594	-.209	-.163	-.109	-.191
25	.621	-1.298	-1.871	-.213	.990	.857	-1.613
26	1.700	.823	.607	1.258	*000.000	1.268	.078
27	1.517	1.006	.975	1.210	.923	.804	.216
28	1.125	.765	.899	.123	.506	.425	.420
29	.748	.386	.544	.181	.307	.396	.304
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	.547	.194	.349	.251	.259	.339	.356
32	.701	.120	.248	.298	.202	.305	.008
33	.483	-.100	.073	.215	.165	.181	.134

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.318	-3.688	-4.016	-2.747	-1.939	-1.352	-2.471
2	-3.180	-3.689	-3.147	-3.747	-3.426	-2.496	-1.858
3	-3.033	-3.281	-2.435	-3.802	-3.799	-2.698	-1.604
4	-2.550	-2.054	-1.043	-3.435	-3.466	-2.768	-1.510
5	-1.753	-.908	-.747	-2.691	-3.143	-2.399	-1.119
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.595	-.728	-.752	-2.100	-2.302	-1.149	-.728
11	-.482	-.671	*000.000	-1.482	-1.681	-.759	-.570
12	-.507	-.719	-.783	-.930	-1.024	-.569	-.561
13	-.408	-.685	-.626	-.633	-.567	-.454	-.423
14	-.434	-.658	-.637	-.581	-.401	-.437	-.350
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.451	-.687	-.666	-.275	-.264	-.472	-.449
24	-.537	-.687	-.586	-.363	-.189	-.300	-.378
25	-.201	-1.656	-2.259	-.411	.606	.610	-1.961
26	1.136	.722	.591	1.192	*000.000	1.093	-.180
27	1.193	1.131	1.125	1.158	1.093	.824	.307
28	.694	.846	.743	.213	.554	.382	.309
29	.348	.413	.601	.204	.312	.345	.174
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	.149	.241	.374	.251	.232	.244	.224
32	.266	.148	.335	.247	.205	.248	-.119
33	.086	-.028	.071	.205	.097	.073	.114

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.911	-3.952	-3.771	-3.318	-2.449	-1.288	-1.722
2	-3.750	-3.924	-3.034	-4.735	-4.087	-2.722	-.815
3	-3.541	-3.394	-1.943	-4.736	-4.248	-2.627	-.679
4	-2.863	-1.998	-.967	-3.818	-3.888	-2.556	-.647
5	-2.347	-1.048	-1.286	-3.723	-3.929	-2.473	-.765
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.592	-.842	-.886	-2.311	-2.447	-1.024	-.647
11	-.692	-.911	*000.000	-1.867	-1.959	-.763	-.492
12	-1.019	-.873	-.999	-1.067	-1.099	-.539	-.363
13	-.929	-.853	-.733	-.657	-.676	-.552	-.408
14	-.946	-.938	-.885	-.658	-.585	-.529	-.508
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.815	-.828	-.833	-.556	-.445	-.541	-.510
24	-.840	-.801	-.796	-.288	-.269	-.435	-.413
25	-1.039	-1.965	-2.344	-.534	.334	.449	-1.647
26	.744	.626	.429	1.080	*000.000	.963	-.098
27	.663	1.067	1.030	1.105	1.063	.663	.296
28	.284	.821	.429	.219	.559	.291	.384
29	0.	.408	.594	.270	.271	.235	.329
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.143	.287	.340	.241	.213	.210	.155
32	-.084	.119	.246	.215	.146	.166	-.089
33	-.302	-.106	.068	.074	.040	.031	.117

Table 19. - Continued.

(d) $C_{T,s} = 0.30$, $q_s = 19.05$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.051	.991	.801	-.003	1.232	1.182	.725
2	.563	.380	.307	.640	.917	.731	.275
3	.286	.082	.062	.472	.569	.404	.004
4	-.180	-.443	-.453	.026	.124	-.065	-.305
5	-1.320	-.836	-.947	-.420	-.286	-.452	-.551
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.737	-1.041	-1.328	-1.165	-1.039	-.649	-.755
11	-.805	-1.058	.000.000	-1.076	-1.053	-.993	-.997
12	-1.029	-.808	-.559	-.696	-.671	-.606	-.596
13	-.214	-.330	-.256	-.333	-.427	-.413	-.384
14	-.125	-.182	-.148	-.310	-.274	-.316	-.327
15	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
16	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
17	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
18	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
19	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
20	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
21	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
22	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
23	-.045	-.003	-.007	-.146	-.071	-.123	-.152
24	.022	.133	.146	.048	.143	.088	-.017
25	.415	.990	.469	.084	.474	.871	.724
26	.189	.394	.180	-.567	.000.000	.036	.087
27	-.738	-.218	-.476	-.839	-.791	-.545	-.288
28	-.222	-.249	-.333	-.058	-.467	-.324	-.200
29	-.043	-.085	-.013	-.046	-.121	-.060	-.063
30	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
31	-.048	.023	.100	.062	.039	.042	-.089
32	.034	.038	.124	.083	.061	.038	-.013
33	.027	.072	.142	.046	.115	.025	-.068

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.680	.462	.209	-.004	1.040	.929	.507
2	-.034	-.362	-.481	-.005	.307	.117	-.212
3	-.293	-.762	-.783	-.285	-.086	-.288	-.634
4	-.714	-1.136	-1.264	-.762	-.586	-.820	-1.071
5	-.985	-1.456	-1.612	-1.107	-1.061	-1.228	-1.286
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.950	-1.247	-1.508	-1.399	-1.330	-.890	-1.044
11	-.903	-1.209	.000.000	-1.268	-1.315	-1.201	-1.113
12	-1.139	-.823	-.515	-.768	-.762	-.709	-.818
13	-.287	-.264	-.178	-.392	-.321	-.379	-.409
14	-.250	-.190	-.124	-.261	-.263	-.280	-.340
15	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
16	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
17	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
18	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
19	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
20	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
21	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
22	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
23	-.255	-.071	-.061	-.142	-.114	-.148	-.166
24	-.355	.012	.008	.080	.004	.037	-.014
25	.986	.998	.802	.113	.831	1.010	.776
26	.522	.737	.543	.244	.000.000	.395	.416
27	-.027	.152	-.091	-.264	-.334	-.159	-.010
28	-.132	-.061	-.088	-.026	-.252	-.096	-.076
29	-.132	-.009	.049	.024	-.032	.022	-.061
30	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
31	-.340	.074	.102	.181	.078	.098	.043
32	-.069	.052	.119	.136	.034	.056	-.005
33	-.043	.060	.108	.135	.099	.055	-.059

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.248	-.208	-.573	.095	.670	.414	-.101
2	-.528	-1.286	-1.573	-.856	-.338	-.647	-.963
3	-.902	-1.584	-1.838	-1.077	-.882	-1.132	-1.431
4	-1.096	-1.802	-1.991	-1.357	-1.248	-1.509	-1.636
5	-1.349	-2.035	-2.132	-1.644	-1.719	-1.752	-1.756
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.946	-1.377	-1.648	-1.573	-1.575	-1.240	-1.499
11	-.779	-1.104	.000.000	-1.172	-1.313	-1.249	-1.163
12	-1.053	-.548	-.453	-.711	-.670	-.760	-.707
13	-.180	-.267	-.207	-.326	-.281	-.499	-.483
14	-.262	-.150	-.193	-.233	-.262	-.389	-.405
15	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
16	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
17	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
18	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
19	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
20	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
21	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
22	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
23	-.308	-.088	-.092	-.124	-.143	-.136	-.217
24	-.592	.012	.023	.075	-.047	.027	-.050
25	.981	.882	.452	.053	1.030	1.127	.794
26	.092	.467	.065	.564	.000.000	.922	.845
27	.297	.441	.286	.115	.177	.257	.321
28	.037	.157	.146	.173	-.065	.050	.046
29	-.074	.060	.124	.045	.015	.065	.080
30	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
31	-.092	.088	.182	.052	.132	.134	.115
32	.039	.073	.177	.121	.165	.091	-.008
33	-.050	.095	.150	.122	.108	.055	-.009

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.424	-1.365	-1.981	-.957	-.128	-.442	-1.178
2	-1.352	-2.398	-2.944	-1.476	-1.358	-1.705	-2.128
3	-1.852	-2.879	-3.300	-2.260	-1.962	-2.199	-2.478
4	-1.867	-2.731	-3.060	-2.261	-2.091	-2.342	-2.439
5	-1.848	-2.438	-2.650	-2.192	-2.253	-2.422	-2.392
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.239	-1.640	-1.892	-1.814	-1.680	-1.554	-1.920
11	-.883	-1.189	.000.000	-1.298	-1.367	-1.428	-1.389
12	-1.247	-.495	-.476	-.816	-.638	-.925	-.879
13	-.359	-.209	-.264	-.303	-.350	-.532	-.508
14	-.332	-.353	-.416	-.330	-.465	-.489	-.504
15	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
16	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
17	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
18	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
19	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
20	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
21	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
22	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
23	-.635	-.173	-.184	-.099	-.382	-.287	-.331
24	-1.236	-.181	-.107	.053	-.158	-.067	-.046
25	.900	.417	-.206	.518	1.217	1.144	.382
26	.249	.947	.653	.454	.000.000	1.170	.885
27	.496	.772	.609	.808	.495	.594	.588
28	.048	.303	.309	-.008	.128	.214	.209
29	-.132	.110	.212	.128	.116	.179	.180
30	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
31	-.239	.092	.235	.153	.142	.178	.120
32	-.110	.055	.196	.158	.102	.113	-.028
33	-.231	.067	.172	.185	.137	.143	.109

Table 19.- Concluded.

(d) $C_{T,S} = 0.30$, $q_s = 19.05$

$\alpha = 25°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-.984	-2.205	-2.824	-1.642	-.838	-1.226	-2.117
2	-1.983	-3.085	-3.706	-2.659	-2.057	-2.484	-2.982
3	-2.151	-2.949	-3.066	-2.894	-2.718	-2.926	-3.256
4	-1.617	-3.356	-4.012	-3.025	-2.865	-3.316	-3.496
5	-1.762	-2.364	-2.503	-2.408	-2.594	-2.735	-2.702
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.104	-.923	-.697	-1.773	-1.921	-1.751	-2.186
11	-.716	-.816	*000.000	-1.204	-.920	-1.452	-1.404
12	-.466	-.520	-.455	-.678	-.586	-.987	-.963
13	-.277	-.429	-.341	-.347	-.555	-.633	-.625
14	-.464	-.559	-.571	-.451	-.668	-.572	-.554
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.565	-.388	-.348	-.304	-.655	-.409	-.311
24	-1.077	-.230	-.176	-.034	-.244	-.141	-.175
25	.630	.164	-.314	-.109	1.120	.794	-.280
26	.883	.859	.707	.867	*000.000	1.194	.742
27	.566	.765	.702	.898	.739	.804	.679
28	.333	.506	.553	.085	.429	.476	.400
29	.115	.318	.457	.129	.307	.332	.299
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.136	.129	.278	.094	.192	.220	.217
32	.060	.087	.243	.192	.179	.215	.019
33	-.043	.062	.173	.164	.127	.098	.110

$\alpha = 30°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-1.787	-2.877	-3.436	-2.626	-1.718	-2.141	-3.581
2	-2.260	-2.918	-3.367	-3.585	-3.166	-3.715	-4.186
3	-2.349	-2.883	-3.204	-3.318	-3.400	-3.705	-3.953
4	-2.375	-2.926	-2.995	-3.360	-3.220	-3.877	-3.920
5	-1.980	-2.016	-2.012	-2.963	-3.266	-3.616	-3.386
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.962	-.637	-.626	-1.918	-2.290	-2.162	-2.525
11	-.547	-.618	*000.000	-1.123	-.928	-1.677	-1.485
12	-.683	-.658	-.675	-.629	-.706	-1.079	-.966
13	-.503	-.673	-.606	-.521	-.664	-.760	-.690
14	-.740	-.795	-.637	-.595	-.961	-.794	-.640
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-.995	-.680	-.601	-.565	-.727	-.518	-.442
24	-.943	-.650	-.444	-.407	-.423	-.340	-.283
25	.076	-.527	-1.059	-.412	.705	.263	-1.232
26	.891	.853	.732	1.109	*000.000	1.288	.565
27	.730	.922	.925	1.089	1.107	1.011	.748
28	.312	.545	.601	.085	.515	.497	.414
29	.016	.230	.353	.122	.261	.332	.389
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-.107	.188	.333	.237	.235	.276	.291
32	.020	.058	.205	.216	.158	.196	-.001
33	-.163	-.007	.103	.104	.123	.130	.171

$\alpha = 35°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-2.075	-2.744	-3.333	-3.178	-2.644	-2.995	-4.725
2	-3.123	-3.779	-3.997	-5.210	-4.742	-5.185	-5.608
3	-2.883	-3.059	-2.828	-4.051	-3.470	-4.330	-4.480
4	-2.885	-3.043	-1.979	-4.379	-4.645	-4.970	-4.596
5	-2.060	-1.417	-.945	-3.512	-3.758	-4.270	-3.937
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.794	-.633	-.546	-1.840	-1.602	-2.313	-2.628
11	-.502	-.598	*000.000	-1.024	-1.172	-1.835	-1.692
12	-.610	-.646	-.684	-.788	-1.008	-1.155	-1.036
13	-1.412	-.662	-.727	-.693	-.945	-.911	-.823
14	-.790	-.739	-.723	-.732	-.861	-.746	-.800
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
19	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
20	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
23	-1.100	-.737	-.750	-.599	-.594	-.478	-.550
24	-.828	-.669	-.498	-.610	-.455	-.290	-.225
25	-.352	-.949	-1.344	-.495	.351	-.079	-2.150
26	.852	.756	.683	1.217	*000.000	1.318	.277
27	.888	.978	1.032	1.228	1.257	1.168	.770
28	.537	.630	.713	.244	.650	.660	.543
29	.122	.305	.432	.279	.359	.402	.385
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	-1.131	.207	.371	.206	.294	.368	.334
32	-.076	.061	.177	.241	.137	.228	-.047
33	-.204	-.084	.051	.189	.063	.129	.116

Table 20.- Pressure coefficients for wing with propeller rotation up at tip, basic leading edge, fences on, $\delta_f = 20°$.

(a) $C_{T,s} = 0.90$, $q_s = 20.19$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.886	.831	.698	-.004	.735	.969	.080
2	.253	.233	.117	.817	1.068	.942	-.019
3	.047	-.140	-.206	.959	1.062	.878	-.068
4	-.227	-.311	-.418	.929	.822	.495	-.118
5	-.428	-.709	-.784	.692	.495	.142	-.214
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.318	-.694	-.920	.027	-.153	-.085	-.155
11	-.248	-.649	*000.000	-.312	-.451	-.291	-.297
12	-.862	-.468	-.552	-.303	-.441	-.256	-.246
13	-.169	-.353	-.414	-.244	-.353	-.210	-.203
14	-.167	-.296	-.389	-.248	-.325	-.166	-.180
15	-.169	-.692	.064	.208	.196	.002	-.066
16	.272	.109	.225	.210	.233	.101	-.038
17	.328	.163	.269	.200	.236	.101	.002
18	.266	.139	.209	.117	.151	.075	-.042
19	.244	-.038	-.011	.058	.009	-.008	-.090
20	-.257	-.444	-.516	-.274	-.306	-.249	-.213
21	-.404	-.648	-.756	-.556	-.579	-.492	-.267
22	-.445	-.673	-.760	-.603	-.548	-.480	-.230
23	-.400	-.288	-.270	-.072	-.044	-.201	-.202
24	-.248	.059	.165	.091	.056	.044	-.067
25	.934	.997	.879	-1.788	-.233	.100	.105
26	.530	.728	.695	-1.762	*000.000	-.156	.129
27	-.025	.240	.287	-.942	-1.069	-.706	-.037
28	.008	.117	.146	-.226	-.378	-.187	-.034
29	.085	.237	.215	.194	.101	.012	.022
30	.940	.902	.866	.311	.740	.505	.167
31	.412	.557	.574	.353	.540	.257	.056
32	.255	.422	.498	.357	.280	.202	.077
33	.090	.318	.366	.329	.228	.147	-.028

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.748	.535	.187	-.003	.956	1.024	-.088
2	.164	-.127	-.431	.737	1.054	.894	-.169
3	-.078	-.354	-.519	.836	.952	.747	-.197
4	-.360	-.701	-.906	.764	.647	.358	-.200
5	-.532	-.860	-.939	.530	.255	-.008	-.289
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.415	-.814	-1.056	-.055	-.289	-.175	-.241
11	-.338	-.775	*000.000	-.396	-.547	-.413	-.292
12	-.927	-.481	-.516	-.316	-.483	-.234	-.154
13	-.241	-.374	-.414	-.288	-.376	-.226	-.142
14	-.274	-.311	-.359	-.286	-.356	-.186	-.135
15	-.209	-.785	.132	.227	.148	.130	.010
16	.223	.148	.266	.229	.280	.135	.008
17	.270	.173	.287	.235	.250	.140	.051
18	.274	.127	.233	.150	.188	.139	.052
19	.171	-.017	.002	.034	.006	.038	-.028
20	-.354	-.443	-.473	-.257	-.386	-.254	-.188
21	-.564	-.708	-.745	-.528	-.624	-.479	-.239
22	-.597	-.710	-.750	-.571	-.621	-.566	-.255
23	-.560	-.291	-.243	-.115	-.108	-.258	-.196
24	-.377	.039	.197	.085	.049	.060	-.059
25	.422	1.082	.885	-1.260	-.180	.196	.076
26	.564	.955	.939	-1.217	*000.000	-.046	.265
27	.053	.378	.491	-.732	-.826	-.579	.080
28	-.002	.178	.301	-.184	-.350	-.155	.078
29	.049	.274	.273	.210	.119	.028	.080
30	.864	.955	.910	.380	.833	.395	.258
31	.372	.568	.600	.363	.544	.306	.139
32	.172	.438	.518	.329	.361	.219	.135
33	.052	.338	.426	.288	.214	.181	.040

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.541	.285	-.090	.210	1.026	1.078	-.183
2	-.124	-.479	-.762	.750	.997	.820	-.320
3	-.358	-.760	-1.008	.796	.895	.715	-.273
4	-.545	-.950	-1.209	.719	.542	.279	-.342
5	-.668	-1.141	-1.260	.343	.132	-.113	-.412
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.456	-.889	-1.165	-.152	-.359	-.224	-.248
11	-.335	-.778	*000.000	-.393	-.573	-.411	-.287
12	-.954	-.493	-.578	-.348	-.499	-.298	-.228
13	-.269	-.372	-.416	-.276	-.396	-.230	-.173
14	-.318	-.324	-.398	-.275	-.383	-.230	-.171
15	-.134	-.867	.128	.249	.139	.072	-.076
16	.174	.167	.250	.216	.246	.173	.038
17	.212	.141	.264	.225	.262	.182	.030
18	.276	.162	.201	.144	.208	.119	.045
19	.137	-.051	-.053	.056	.030	.007	-.065
20	-.453	-.473	-.520	-.266	-.409	-.306	-.212
21	-.664	-.742	-.803	-.538	-.693	-.524	-.292
22	-.692	-.726	-.768	-.549	-.682	-.604	-.344
23	-.719	-.383	-.338	-.146	-.118	-.276	-.240
24	-.335	.045	.141	.060	.101	.070	-.082
25	1.059	1.002	.591	-.866	-.002	.381	-.061
26	.795	.965	.838	-.830	*000.000	-.002	.182
27	.180	.522	.595	-.493	-.667	-.491	.068
28	.048	.282	.374	.074	-.282	-.142	.073
29	.070	.286	.301	.207	.126	.066	.064
30	.868	.909	.861	.441	.972	.544	.245
31	.370	.540	.556	.390	.546	.443	.187
32	.201	.414	.498	.315	.377	.310	.204
33	.093	.326	.370	.280	.258	.172	-.004

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.398	-.053	-.633	.454	1.092	1.089	-.288
2	-.293	-.811	-1.317	.651	.959	.720	-.447
3	-.479	-1.153	-1.379	.695	.785	.508	-.459
4	-.710	-1.287	-1.565	.689	.420	.120	-.488
5	-.725	-1.304	-1.442	.308	.032	-.244	-.449
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.524	-1.044	-1.314	-.204	-.495	-.317	-.339
11	-.427	-.907	*000.000	-.445	-.683	-.482	-.369
12	-.945	-.555	-.588	-.300	-.522	-.311	-.218
13	-.375	-.468	-.454	-.270	-.405	-.283	-.203
14	-.468	-.434	-.420	-.261	-.404	-.252	-.187
15	-.150	-.974	.183	.295	.137	.029	-.133
16	.082	.187	.280	.295	.272	.209	.040
17	.089	.176	.267	.276	.269	.193	.027
18	.142	.161	.198	.230	.269	.185	.031
19	-.026	-.066	-.086	.097	.049	.005	-.022
20	-.627	-.563	-.553	-.293	-.427	-.378	-.218
21	-.830	-.839	-.775	-.504	-.699	-.554	-.283
22	-.953	-.805	-.768	-.550	-.746	-.676	-.347
23	-.909	-.431	-.294	-.083	-.208	-.318	-.248
24	-.485	.030	.146	-.097	.136	.049	-.080
25	1.060	.897	.375	-.294	.174	.547	-.120
26	.904	1.032	.872	-.329	*000.000	.182	.214
27	.301	.667	.753	-.309	-.526	-.428	.141
28	.112	.336	.442	.134	-.202	-.146	.042
29	.042	.317	.365	.301	.175	.109	.108
30	.908	.941	.942	.617	1.115	.811	.378
31	.388	.576	.641	.546	.584	.513	.238
32	.303	.396	.519	.413	.383	.291	.154
33	.076	.313	.430	.337	.263	.202	-.017

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.269	-.374	-1.100	.558	1.089	1.042	-.349
2	-.526	-1.227	-1.883	.539	.824	.738	-.477
3	-.731	-1.579	-2.008	.557	.586	.450	-.565
4	-.876	-1.580	-1.908	.384	.206	-.034	-.533
5	-.887	-1.615	-1.833	.168	-.186	-.420	-.650
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.632	-1.173	-1.395	-.337	-.603	-.386	-.311
11	-.502	-.930	*000.000	-.469	-.709	-.469	-.342
12	-.972	-.595	-.588	-.306	-.541	-.341	-.278
13	-.525	-.532	-.477	-.299	-.421	-.285	-.208
14	-.648	-.482	-.445	-.289	-.382	-.224	-.209
15	-.166	-.941	.234	.272	.077	.100	-.141
16	-.122	.157	.272	.279	.240	.218	-.026
17	-.085	.128	.235	.252	.266	.262	0.
18	-.031	.122	.166	.195	.218	.172	.014
19	-.181	-.120	-.088	.041	.016	.013	-.021
20	-.881	-.604	-.536	-.311	-.433	-.348	-.252
21	-1.234	-.866	-.755	-.548	-.730	-.577	-.328
22	-1.355	-.916	-.750	-.573	-.715	-.660	-.362
23	-1.120	-.470	-.300	-.133	-.211	-.314	-.249
24	-.597	-.003	.147	.117	.113	.077	-.129
25	1.025	.724	-.007	-.050	.355	.704	-.213
26	.979	1.029	.855	-.127	*000.000	.411	.275
27	.399	.722	.792	-.255	-.352	-.280	.085
28	.127	.373	.494	.081	-.129	-.086	-.018
29	.035	.305	.386	.295	.156	.147	.064
30	.792	.848	.876	.631	1.045	.990	.560
31	.386	.580	.648	.562	.609	.528	.220
32	.187	.438	.550	.476	.485	.372	.230
33	.019	.279	.372	.347	.295	.194	-.097

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.047	-.749	-1.845	.522	1.084	.965	-.541
2	-.748	-1.549	-2.290	.524	.654	.530	-.674
3	-.882	-1.717	-2.379	.400	.374	.269	-.661
4	-1.026	-1.786	-2.291	.424	.032	-.187	-.628
5	-.998	-1.763	-2.072	.008	-.353	-.447	-.512
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.656	-1.245	-1.496	-.344	-.654	-.385	-.284
11	-.550	-.985	*000.000	-.511	-.765	-.502	-.306
12	-.990	-.629	-.611	-.369	-.586	-.357	-.271
13	-.670	-.569	-.502	-.317	-.470	-.307	-.182
14	-.806	-.507	-.429	-.304	-.400	-.260	-.186
15	-.269	-.937	.257	.243	.103	.113	-.253
16	-.303	.180	.254	.326	.260	.214	.049
17	-.267	.128	.256	.350	.311	.227	.028
18	-.188	.107	.175	.293	.261	.179	.025
19	-.306	-.120	-.107	.110	-.011	.055	-.014
20	-1.078	-.611	-.566	-.351	-.480	-.377	-.174
21	-1.467	-.884	-.737	-.573	-.715	-.537	-.242
22	-1.532	-.866	-.671	-.591	-.712	-.582	-.301
23	-1.374	-.554	-.325	-.220	-.233	-.319	-.262
24	-.598	-.005	.072	.157	.131	.025	-.076
25	.927	.501	-.423	.160	.522	.734	-.421
26	1.001	1.026	.720	-.075	*000.000	.473	.163
27	.440	.742	.780	.049	-.199	-.238	-.059
28	.147	.413	.522	.021	-.077	-.066	.090
29	.036	.327	.408	.271	.197	.109	.039
30	.750	.853	.863	.790	1.089	.925	.404
31	.320	.569	.595	.582	.605	.505	.330
32	.151	.408	.516	.595	.476	.328	.265
33	0.	.265	.372	.301	.311	.182	-.072

Table 20.- Continued.

(a) $C_{T,s} = 0.90$, $q_s = 20.19$

$\alpha = 35°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-.248	-1.117	-2.458	.867	1.093	1.030	-.630
2	-1.109	-1.968	-2.843	.563	.503	.396	-.907
3	-1.230	-2.332	-3.137	.582	.267	.170	-.654
4	-1.345	-2.214	-2.853	.260	-.119	-.211	-.658
5	-1.225	-2.033	-2.346	-.009	-.508	-.526	-.612
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.769	-1.352	-1.553	-.393	-.812	-.398	-.305
11	-.649	-1.047	*000.000	-.593	-.873	-.468	-.411
12	-1.002	-.865	-.585	-.387	-.631	-.298	-.278
13	-.823	-.594	-.468	-.360	-.496	-.270	-.189
14	-1.041	-.553	-.449	-.315	-.463	-.166	-.295
15	-.382	-.967	.281	.325	.009	.148	-.158
16	-.416	.163	.311	.349	.248	.228	-.049
17	-.406	.109	.258	.363	.256	.261	-.053
18	-.368	.080	.138	.301	.242	.202	-.044
19	-.525	-.178	-.132	.060	-.070	.001	-.124
20	-1.386	-.674	-.586	-.407	-.551	-.360	-.311
21	-1.832	-1.003	-.720	-.689	-.917	-.573	-.325
22	-2.080	-1.061	-.624	-.761	-.869	-.695	-.441
23	-1.655	-.593	-.308	-.257	-.340	-.379	-.369
24	-.727	-.037	.057	.138	.084	.002	-.150
25	.843	.375	-.756	.384	.662	.866	-.437
26	.969	.932	.675	.413	*000.000	.521	-.041
27	.485	.813	.841	.290	-.121	-.189	.094
28	.178	.459	.528	.083	-.071	-.090	-.064
29	-.037	.325	.419	.338	.190	.127	.017
30	.660	.838	.850	1.022	1.095	1.002	.413
31	.265	.544	.547	.584	.505	.567	.251
32	.096	.418	.559	.510	.481	.334	.137
33	-.057	.271	.415	.367	.285	.209	.009

$\alpha = 40°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-.642	-1.667	-2.861	.816	.986	.981	-.671
2	-1.452	-2.496	-3.590	.572	.422	.388	-.566
3	-1.703	-2.709	-3.533	.486	.089	.121	-.684
4	-1.751	-2.655	-3.324	.087	-.331	-.319	-.679
5	-1.493	-2.285	-2.593	-.200	-.613	-.468	-.524
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.890	-1.440	-1.592	-.528	-.898	-.356	-.288
11	-.759	-1.094	*000.000	-.663	-.923	-.452	-.316
12	-1.017	-.727	-.596	-.493	-.681	-.347	-.206
13	-.961	-.604	-.464	-.348	-.515	-.316	-.225
14	-1.277	-.594	-.445	-.387	-.498	-.140	-.237
15	-.504	-.998	.326	.314	.003	.049	-.269
16	-.610	.125	.273	.472	.220	.229	.003
17	-.586	.070	.276	.356	.257	.171	-.014
18	-.555	.048	.181	.295	.204	.156	0.
19	-.662	-.192	-.104	.081	-.089	.014	-.067
20	-1.614	-.734	-.591	-.492	-.605	-.417	-.348
21	-2.193	-1.099	-.682	-.845	-.988	-.583	-.415
22	-2.251	-1.102	-.624	-.783	-.898	-.664	-.386
23	-1.804	-.605	-.294	-.289	-.362	-.415	-.279
24	-.821	-.067	.021	.135	.079	-.072	-.109
25	.696	.132	-.938	.132	.841	.883	-.239
26	.951	.950	.646	.618	*000.000	.473	.022
27	.537	.841	.877	.098	-.112	-.169	.116
28	.154	.466	.579	.048	-.074	-.069	.017
29	-.085	.326	.488	.307	.169	.097	.051
30	.553	.820	.903	.985	1.056	1.050	.420
31	.177	.571	.696	.641	.592	.409	.092
32	.048	.365	.517	.505	.421	.272	.193
33	-.102	.241	.367	.385	.274	.151	-.126

$\alpha = 45°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-.931	-1.923	-3.497	.699	.996	.975	-.745
2	-1.935	-2.963	-4.115	.342	.302	.380	-.714
3	-1.905	-2.945	-3.845	.191	-.041	.044	-.720
4	-2.052	-2.816	-3.491	-.042	-.422	-.368	-.722
5	-1.747	-2.491	-2.856	-.412	-.721	-.464	-.323
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.055	-1.603	-1.736	-.722	-.972	-.427	-.212
11	-.869	-1.203	*000.000	-.771	-.893	-.399	-.222
12	-.977	-.767	-.629	-.556	-.577	-.258	-.136
13	-1.079	-.672	-.509	-.405	-.501	-.333	-.232
14	-1.410	-.661	-.478	-.436	-.461	-.106	-.238
15	-.609	-.937	.342	.255	.028	.171	-.068
16	-.750	.124	.250	.330	.242	.247	-.010
17	-.701	.053	.226	.331	.283	.199	.044
18	-.676	.033	.157	.269	.256	.155	.084
19	-.790	-.235	-.195	0.	-.069	-.034	-.026
20	-1.711	-.759	-.613	-.525	-.578	-.303	-.131
21	-2.328	-1.095	-.711	-.857	-.920	-.593	-.329
22	-2.522	-1.108	-.619	-.845	-.887	-.643	-.360
23	-1.879	-.645	-.369	-.322	-.377	-.382	-.298
24	-.852	-.092	-.079	.105	.068	-.174	-.147
25	.447	-.150	-1.344	.634	.887	.826	-.406
26	.988	.883	.601	.483	*000.000	.378	-.001
27	.616	.860	.870	.150	.019	-.158	.107
28	.195	.488	.590	.047	-.005	-.070	.096
29	-.071	.325	.453	.286	.204	.078	.140
30	.569	.826	.859	1.037	1.186	.919	.407
31	.199	.593	.685	.540	.637	.441	.255
32	.027	.401	.533	.506	.464	.240	.165
33	-.087	.224	.359	.362	.300	.098	-.047

$\alpha = 50°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-1.401	-2.174	-3.649	.479	.824	.818	-.603
2	-2.272	-3.129	-4.336	.097	.140	.296	-.560
3	-2.346	-3.287	-4.179	-.099	-.220	.031	-.622
4	-2.294	-3.010	-3.612	-.392	-.595	-.331	-.442
5	-1.935	-2.533	-2.821	-.538	-.856	-.316	-.329
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.214	-1.681	-1.728	-.931	-1.024	-.278	-.179
11	-.889	-1.182	*000.000	-.813	-.896	-.336	-.168
12	-.932	-.810	-.649	-.547	-.643	-.264	-.226
13	-1.220	-.703	-.519	-.462	-.519	-.309	-.234
14	-1.583	-.696	-.486	-.450	-.449	-.082	-.206
15	-.799	-.908	.318	.201	-.014	.208	-.093
16	-.911	.088	.272	.353	.226	.213	-.030
17	-.889	.008	.223	.361	.254	.177	-.059
18	-.777	.006	.160	.297	.207	.111	-.013
19	-.916	-.265	-.153	.028	-.079	-.030	-.128
20	-1.978	-.819	-.629	-.582	-.638	-.368	-.297
21	-2.452	-1.103	-.698	-.802	-.866	-.329	-.202
22	-2.657	-1.132	-.633	-.851	-.918	-.470	-.346
23	-1.929	-.642	-.390	-.346	-.436	-.318	-.303
24	-.879	-.105	-.089	.104	.050	-.095	-.121
25	.141	-.293	-1.562	.802	.979	.684	-.362
26	.817	.893	.580	.762	*000.000	.576	-.007
27	.539	.887	.890	.237	.037	-.075	.032
28	.204	.514	.612	.055	-.019	-.006	.105
29	-.108	.333	.484	.316	.171	.139	.165
30	.546	.806	.927	1.008	1.080	.745	.306
31	.157	.588	.665	.643	.577	.406	.245
32	-.046	.375	.529	.482	.449	.259	.214
33	-.119	.204	.327	.338	.295	.238	.119

$\alpha = 55°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-1.826	-2.478	-3.630	.566	.824	.582	-.478
2	-2.914	-3.580	-4.693	-.037	.137	.195	-.491
3	-2.873	-3.495	-4.315	-.112	-.135	.074	-.293
4	-2.748	-3.342	-3.922	-.612	-.573	-.111	-.271
5	-2.348	-2.875	-3.122	-.772	-.908	-.225	-.172
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.314	-1.668	-1.592	-1.035	-1.000	-.170	-.148
11	-.989	-1.236	*000.000	-.854	-.907	-.269	-.237
12	-.926	-.808	-.611	-.536	-.597	-.217	-.168
13	-1.403	-.721	-.491	-.447	-.476	-.216	-.264
14	-1.770	-.711	-.492	-.453	-.397	-.036	-.175
15	-.850	-.813	.320	.186	-.012	.152	-.118
16	-1.027	.065	.272	.365	.215	.134	-.047
17	-.959	.011	.199	.345	.296	.128	.011
18	-.947	-.054	.134	.299	.238	.085	-.012
19	-1.085	-.310	-.178	.019	.002	-.012	-.048
20	-2.094	-.841	-.649	-.560	-.424	-.284	-.175
21	-2.653	-1.154	-.770	-.860	-.848	-.341	-.315
22	-2.520	-1.030	-.684	-.859	-.832	-.443	-.318
23	-1.793	-.612	-.456	-.348	-.466	-.373	-.332
24	-.856	-.169	-.143	.095	.030	-.102	-.150
25	-.348	-.587	-1.719	.866	.993	.688	-.404
26	.662	.798	.505	.858	*000.000	.527	-.031
27	.482	.839	.842	.268	.067	-.027	.100
28	.161	.496	.614	.038	.003	-.005	.068
29	-.152	.322	.463	.277	.174	.041	.081
30	.351	.759	.863	1.008	1.069	.609	.195
31	.085	.545	.648	.589	.546	.295	.102
32	-.060	.368	.498	.476	.436	.265	.151
33	-.091	.181	.338	.314	.277	.142	-.010

$\alpha = 60°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-2.670	-2.781	-3.952	.517	.809	.607	-.121
2	-3.372	-3.632	-4.564	-.147	.055	.280	-.129
3	-3.482	-3.835	-4.531	-.149	-.322	.139	-.293
4	-3.198	-3.544	-4.004	-.723	-.598	.001	-.078
5	-2.433	-2.873	-2.975	-.771	-.848	-.166	-.067
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.418	-1.759	-1.604	-1.024	-.902	-.073	-.063
11	-1.090	-1.325	*000.000	-.891	-.828	-.166	-.050
12	-.981	-.892	-.649	-.546	-.579	-.209	-.146
13	-1.570	-.820	-.590	-.457	-.373	-.216	-.190
14	-1.816	-.713	-.512	-.444	-.380	-.113	-.231
15	-.996	-.761	.336	.253	-.009	.127	-.011
16	-1.099	.057	.223	.394	.231	.120	.010
17	-1.028	-.045	.173	.347	.334	.147	.056
18	-1.059	-.112	.093	.260	.233	.081	-.047
19	-1.168	-.391	-.216	.024	-.006	-.023	-.047
20	-2.331	-.934	-.725	-.553	-.481	-.224	-.259
21	-2.650	-1.041	-.834	-.801	-.770	-.284	-.273
22	-2.782	-1.116	-.829	-.940	-.851	-.511	-.411
23	-1.706	-.646	-.533	-.349	-.413	-.292	-.260
24	-.843	-.213	-.127	.112	-.046	-.129	-.060
25	-.885	-.621	-1.703	.906	.995	.385	-.122
26	.545	.734	.522	.912	*000.000	.223	.035
27	.406	.832	.863	.220	.043	-.119	.025
28	.129	.510	.648	.044	-.032	-.039	.076
29	-.172	.303	.471	.263	.124	.039	.117
30	.319	.772	.869	1.010	1.029	.368	.195
31	-.002	.543	.640	.648	.539	.355	.121
32	-.099	.385	.542	.498	.386	.190	.189
33	-.162	.165	.318	.343	.209	.124	-.011

Table 20. - Continued.

(a) $C_{T,s} = 0.90$, $q_s = 20.19$

$\alpha = 65°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.145	-3.078	-4.093	.518	.895	.104	-.247
2	-3.936	-4.106	-4.761	-.166	.249	.257	-.217
3	-3.736	-4.232	-4.864	-.489	-.141	.241	-.115
4	-3.107	-3.608	-3.888	-.692	-.482	.051	-.084
5	-2.588	-3.115	-3.140	-.904	-.728	.022	.022
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.457	-1.934	-1.672	-1.188	-.930	-.068	-.243
11	-1.111	-1.433	*000.000	-.928	-.670	-.161	-.268
12	-1.026	-1.009	-.887	-.665	-.410	-.142	-.256
13	-1.666	-.836	-.623	-.451	-.315	-.218	-.270
14	-2.093	-.799	-.606	-.407	-.233	.077	-.220
15	-.978	-.749	.307	.215	-.029	.070	-.061
16	-1.070	.002	.215	.329	.265	.076	-.033
17	-.969	-.075	.158	.305	.318	.077	.093
18	-.948	-.167	.077	.251	.309	.034	.017
19	-1.107	-.458	-.234	-.028	.058	-.058	-.110
20	-2.242	-1.003	-.768	-.591	-.418	-.266	-.284
21	-2.553	-1.159	-.943	-.770	-.432	-.246	-.278
22	-2.441	-1.079	-.907	-.691	-.493	-.355	-.402
23	-1.263	-.695	-.599	-.387	-.343	-.206	-.318
24	-.651	-.257	-.142	.052	.016	-.115	-.084
25	-1.228	-1.006	-1.878	.889	1.055	.097	-.119
26	.396	.708	.536	.792	*000.000	.032	-.060
27	.455	.844	.879	.196	.028	-.232	.001
28	.102	.468	.621	.018	-.053	-.065	-.019
29	-.191	.260	.496	.108	.135	.073	.006
30	.251	.753	.834	1.063	1.133	.205	.104
31	-.009	.533	.584	.563	.537	.211	.028
32	-.057	.339	.480	.446	.375	.132	.021
33	-.086	.140	.242	.288	.279	.165	.133

$\alpha = 70°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.599	-3.453	-4.218	.521	.804	.216	-.106
2	-4.283	-4.505	-4.771	-.278	.187	.090	-.244
3	-4.170	-4.540	-4.738	-.312	-.023	.131	-.107
4	-3.344	-3.985	-3.946	-.693	-.138	.056	-.118
5	-2.738	-3.346	-3.144	-.835	-.537	-.097	-.215
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.462	-2.007	-1.600	-1.063	-.614	-.005	-.207
11	-1.125	-1.452	*000.000	-.886	-.580	-.152	-.419
12	-.960	-.934	-.695	-.552	-.361	-.094	-.202
13	-1.608	-.794	-.646	-.428	-.247	-.112	-.281
14	-1.824	-.813	-.669	-.435	-.302	.070	-.389
15	-.978	-.704	.287	.218	-.050	.044	-.064
16	-.954	-.025	.192	.351	.239	.033	-.181
17	-.853	-.083	.112	.276	.323	.021	-.277
18	-.819	-.156	.044	.265	.278	-.039	-.176
19	-1.036	-.465	-.309	.012	.108	-.061	-.234
20	-1.731	-.985	-.806	-.539	-.275	-.289	-.394
21	-2.180	-1.137	-1.004	-.739	-.595	-.316	-.404
22	-1.922	-1.011	-.948	-.667	-.343	-.187	-.332
23	-1.022	-.619	-.612	-.281	-.194	-.234	-.265
24	-.563	-.203	-.095	-.088	-.162	-.197	-.235
25	-1.862	-1.292	-1.978	.898	.982	-.082	-.165
26	.154	.642	.467	.993	*000.000	-.125	-.181
27	.298	.805	.841	.221	-.095	-.167	-.147
28	.089	.465	.589	.191	-.097	-.075	-.125
29	-.244	.244	.428	.118	.126	.033	-.175
30	.183	.709	.713	1.036	.989	.110	-.159
31	-.045	.534	.557	.555	.531	.200	-.080
32	-.080	.336	.429	.427	.367	.141	.025
33	-.085	.141	.282	.285	.233	.140	-.139

$\alpha = 75°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-4.116	-3.993	-4.445	.451	.885	-.139	.018
2	-4.519	-4.919	-5.035	-.347	.265	-.059	-.213
3	-4.108	-4.798	-4.709	-.642	-.053	-.084	-.102
4	-3.485	-4.347	-4.204	-.808	-.200	-.078	-.052
5	-2.687	-3.561	-3.224	-.996	-.349	-.043	-.075
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.456	-2.063	-1.611	-1.166	-.549	-.170	-.197
11	-1.095	-1.480	*000.000	-.894	-.612	-.177	-.160
12	-.949	-.903	-.649	-.573	-.309	-.046	-.300
13	-1.519	-.826	-.621	-.535	-.331	-.280	-.265
14	-1.693	-.833	-.634	-.479	-.341	.027	-.161
15	-.848	-.709	.334	.179	-.147	-.080	.039
16	-.889	.030	.180	.363	.238	.034	-.009
17	-.861	-.062	.132	.310	.229	-.054	-.022
18	-.677	-.115	.067	.228	.192	-.056	-.081
19	-.851	-.458	-.276	-.070	-.037	-.087	-.034
20	-1.500	-.896	-.750	-.572	-.362	-.190	-.261
21	-1.688	-1.022	-.921	-.470	-.396	-.285	-.274
22	-1.473	-.876	-.887	-.804	-.578	-.359	-.229
23	-.862	-.554	-.581	-.431	-.421	-.411	-.383
24	-.477	-.229	-.094	-.109	-.144	-.232	-.215
25	-1.969	-1.431	-2.064	.917	.976	-.047	-.118
26	-.088	.584	.501	.749	*000.000	.044	-.059
27	.117	.748	.849	.168	-.171	-.066	-.073
28	.059	.409	.609	.161	-.118	.010	-.076
29	-.193	.220	.428	.107	.046	-.033	-.009
30	.169	.767	.781	1.013	1.008	-.099	.125
31	-.049	.584	.528	.563	.483	-.009	.098
32	-.036	.325	.367	.423	.259	.032	.032
33	-.031	.105	.272	.200	.182	.053	.200

$\alpha = 80°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-4.315	-4.222	-4.457	.502	.800	-.066	-.218
2	-4.471	-5.130	-4.968	.019	.735	-.023	-.134
3	-3.971	-4.883	-4.840	-.444	.221	-.052	-.064
4	-3.349	-4.576	-4.209	-.607	.189	-.040	-.132
5	-2.611	-3.856	-3.360	-.982	-.294	-.120	.031
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.426	-2.185	-1.648	-1.074	-.329	-.027	-.009
11	-1.041	-1.430	*000.000	-.829	-.423	-.118	-.104
12	-.970	-.915	-.667	-.527	-.288	-.095	-.093
13	-1.526	-.797	-.631	-.419	-.213	-.163	-.105
14	-1.396	-.740	-.555	-.279	-.265	-.009	-.159
15	-.764	-.731	.214	.213	-.130	-.185	.040
16	-.808	.057	.143	.371	.114	-.110	-.021
17	-.670	-.073	.087	.387	.191	-.059	.027
18	-.638	-.080	.047	.341	.175	-.051	.006
19	-.760	-.403	-.271	-.039	-.034	-.175	-.042
20	-1.401	-.766	-.688	-.375	-.265	-.150	-.180
21	-1.560	-.930	-.876	-.427	-.345	-.131	-.056
22	-1.435	-.855	-.882	-.419	-.389	-.333	-.259
23	-.711	-.516	-.536	-.274	-.256	-.268	-.165
24	-.460	-.246	-.128	-.093	-.147	-.213	-.141
25	-2.640	-1.551	-2.041	.952	.867	-.065	-.029
26	-.391	.590	.406	.973	*000.000	-.109	-.083
27	-.046	.679	.759	.151	-.260	-.071	-.055
28	0.	.373	.511	.063	-.141	-.014	-.028
29	-.295	.187	.393	.200	.039	-.127	.008
30	.150	.715	.626	.979	.970	-.019	.032
31	-.008	.511	.407	.544	.249	-.154	.142
32	-.063	.306	.362	.424	.191	-.031	.047
33	-.011	.084	.178	.259	.167	.105	.008

Table 20.- Continued.

(b) $C_{T,S} = 0.80$, $q_s = 19.98$

$\alpha = 5^\circ$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.915	.780	.497	.156	1.006	1.096	.153
2	.365	0.	.094	.035	1.167	1.013	.023
3	.149	-.244	-.362	.807	.976	.805	.004
4	-.219	-.543	-.666	.844	.703	.406	-.131
5	-.518	-.850	-.922	.447	.297	.051	-.260
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.502	-.868	-1.048	-.227	-.382	-.228	-.268
11	-.449	-.858	.000.000	-.528	-.626	-.424	-.371
12	-1.002	-.591	-.622	-.459	-.539	-.350	-.304
13	-.318	-.476	-.489	-.341	-.435	-.320	-.249
14	-.329	-.418	-.418	-.342	-.412	-.114	-.253
15	-.168	-.482	.072	.176	.206	.044	-.080
16	.214	.073	.235	.198	.275	.170	-.002
17	.316	.123	.276	.212	.287	.243	.068
18	.318	.120	.205	.101	.191	.185	.011
19	.210	-.042	-.058	-.016	-.012	.042	-.045
20	-.358	-.531	-.538	-.355	-.443	-.371	-.231
21	-.587	-.817	-.839	-.589	-.726	-.600	-.373
22	-.645	-.811	-.818	-.633	-.737	-.679	-.378
23	-.619	-.377	-.303	-.121	-.140	-.338	-.223
24	-.424	.120	.180	.048	.079	.081	-.069
25	.977	1.078	.649	-1.021	-.027	.256	.213
26	.477	.816	.746	.322	.000.000	-.008	.257
27	-.057	.219	.289	-.648	-.796	-.595	-.034
28	-.074	.093	.173	-.056	-.365	-.222	-.025
29	.040	.236	.253	.209	.117	.089	.038
30	.939	.981	.960	.398	.681	.815	.366
31	.424	.597	.610	.338	.619	.460	.150
32	.228	.446	.527	.299	.385	.277	.170
33	.045	.331	.407	.273	.228	.195	.040

$\alpha = 10^\circ$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.855	.419	-.074	.527	1.164	1.179	.036
2	.123	-.388	-.619	.476	.970	.788	-.095
3	-.155	-.728	-.807	.788	.769	.577	-.269
4	-.506	-1.097	-1.202	.459	.358	.149	-.439
5	-.673	-1.267	-1.291	.285	-.083	-.287	-.486
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.572	-1.042	-1.225	-.290	-.545	-.394	-.379
11	-.502	-.938	.000.000	-.561	-.745	-.606	-.524
12	-1.048	-.624	-.621	-.433	-.597	-.427	-.338
13	-.361	-.527	-.494	-.304	-.483	-.392	-.298
14	-.384	-.480	-.451	-.336	-.465	-.247	-.255
15	-.121	-.618	.144	.262	.116	.008	-.106
16	.222	.160	.253	.257	.298	.206	.027
17	.239	.141	.270	.253	.307	.208	.063
18	.270	.138	.227	.238	.267	.190	.022
19	.174	-.090	-.091	.050	-.012	.048	-.020
20	-.435	-.627	-.588	-.365	-.524	-.473	-.300
21	-.713	-.912	-.865	-.624	-.810	-.680	-.387
22	-.765	-.864	-.817	-.597	-.754	-.722	-.379
23	-.765	-.428	-.296	-.089	-.217	-.361	-.272
24	-.502	.101	.170	-.102	.106	.098	-.031
25	1.103	1.095	.677	-.233	.136	.598	.212
26	.777	1.041	.889	.295	.000.000	.196	.425
27	.143	.446	.535	-.344	-.582	-.434	.130
28	.075	.236	.349	.116	-.224	-.166	.045
29	.070	.282	.327	.278	.167	.136	.113
30	.955	1.006	.951	.503	1.155	1.123	.656
31	.464	.609	.632	.482	.616	.540	.295
32	.264	.470	.525	.337	.422	.298	.232
33	.088	.344	.442	.311	.270	.248	-.126

$\alpha = 15^\circ$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.586	-.074	-.888	.453	1.186	1.125	-.063
2	-.234	-.971	-1.437	.644	.873	.600	-.470
3	-.503	-1.365	-1.682	.444	.511	.326	-.646
4	-.760	-1.512	-1.795	.488	.188	-.177	-.708
5	-.917	-1.588	-1.867	-.003	-.308	-.560	-.666
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.674	-1.157	-1.359	-.438	-.695	-.514	-.472
11	-.570	-1.038	.000.000	-.649	-.853	-.692	-.547
12	-1.082	-.649	-.667	-.491	-.631	-.490	-.369
13	-.434	-.556	-.519	-.333	-.470	-.408	-.272
14	-.494	-.488	-.447	-.320	-.436	-.332	-.214
15	-.119	-.788	.211	.268	.174	-.024	-.246
16	.037	.139	.244	.277	.323	.230	.031
17	.082	.142	.253	.263	.329	.315	.083
18	.113	.146	.194	.243	.281	.195	.046
19	-.005	-.123	-.101	.035	.037	.029	-.009
20	-.634	-.640	-.569	-.384	-.543	-.487	-.294
21	-1.005	-.984	-.852	-.622	-.806	-.740	-.389
22	-1.216	-.964	-.818	-.632	-.764	-.800	-.459
23	-1.133	-.479	-.305	-.169	-.239	-.400	-.268
24	-.597	.051	.143	.111	.124	.083	-.018
25	1.074	.900	.262	.036	.419	.807	.206
26	.875	1.052	.752	.221	.000.000	.364	.370
27	.262	.684	.712	-.136	-.333	-.291	.135
28	.107	.356	.478	.096	-.109	-.068	.098
29	.060	.346	.371	.272	.230	.177	.164
30	.867	.964	.940	.633	1.197	1.130	.929
31	.429	.628	.650	.536	.638	.594	.421
32	.212	.449	.543	.488	.506	.387	.340
33	.082	.346	.420	.370	.351	.253	.030

$\alpha = 20^\circ$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.284	-.630	-1.688	.459	1.094	1.046	-.293
2	-.592	-1.615	-2.530	.184	.557	.299	-.756
3	-.786	-1.878	-2.604	.180	.244	.020	-.918
4	-1.051	-1.947	-2.378	-.096	-.223	-.424	-.946
5	-1.134	-1.945	-2.114	-.271	-.604	-.709	-.860
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.843	-1.425	-1.656	-.555	-.999	-.676	-.701
11	-.692	-1.159	.000.000	-.728	-1.029	-.781	-.631
12	-1.158	-.754	-.709	-.534	-.749	-.541	-.462
13	-.565	-.599	-.528	-.373	-.584	-.457	-.371
14	-.716	-.588	-.509	-.380	-.528	-.322	-.296
15	-.208	-.857	.277	.298	.111	.013	-.379
16	-.151	.192	.240	.373	.245	.216	-.108
17	-.135	.131	.270	.322	.296	.311	.009
18	-.070	.100	.172	.258	.244	.207	.022
19	-.183	-.175	-.145	.081	-.004	.045	-.089
20	-.884	-.745	-.650	-.445	-.635	-.548	-.374
21	-1.285	-.989	-.804	-.674	-.891	-.742	-.400
22	-1.469	-1.013	-.740	-.756	-.883	-.848	-.489
23	-1.323	-.515	-.277	-.243	-.303	-.415	-.330
24	-.712	.021	.160	.146	.092	.083	-.097
25	1.079	.669	-.285	.310	.675	1.030	.108
26	.950	1.030	.745	.190	.000.000	.586	.290
27	.375	.732	.752	.163	-.176	-.133	.051
28	.127	.470	.612	.067	-.065	-.040	.056
29	.047	.366	.471	.305	.232	.226	.140
30	.732	.897	.931	.785	1.137	1.146	.934
31	.389	.634	.707	.618	.626	.629	.328
32	.172	.458	.584	.496	.479	.389	.324
33	.035	.334	.445	.382	.318	.298	-.066

$\alpha = 25^\circ$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-.031	-1.229	-2.453	.386	.960	.964	-.854
2	-1.077	-2.445	-3.570	.195	.298	.054	-1.266
3	-1.257	-2.573	-3.278	.180	-.166	-.218	-1.295
4	-1.480	-2.566	-3.086	-.359	-.571	-.660	-1.240
5	-1.469	-2.447	-2.682	-.427	-.913	-1.065	-1.209
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-.933	-1.542	-1.694	-.712	-1.138	-.741	-.687
11	-.815	-1.268	.000.000	-.829	-1.146	-.867	-.705
12	-1.148	-.781	-.644	-.554	-.793	-.554	-.522
13	-.765	-.658	-.478	-.432	-.622	-.471	-.425
14	-.904	-.619	-.448	-.443	-.580	-.265	-.375
15	-.354	-.914	.401	.360	.089	.065	-.384
16	-.347	.195	.336	.457	.269	.213	-.104
17	-.333	.130	.277	.410	.284	.289	-.039
18	-.251	.110	.204	.373	.241	.192	-.022
19	-.353	-.198	-.128	.071	-.079	-.016	-.175
20	-1.130	-.756	-.615	-.567	-.715	-.553	-.386
21	-1.772	-1.095	-.720	-.850	-1.028	-.830	-.527
22	-2.016	-1.076	-.637	-.887	-.984	-.924	-.576
23	-1.688	-.548	-.256	-.269	-.342	-.432	-.334
24	-.778	.002	.076	.148	.115	.071	-.129
25	.969	.390	-.735	.687	.932	1.181	-.281
26	1.108	1.135	.703	.197	.000.000	.792	.146
27	.479	.872	.925	.265	.130	.048	.171
28	.180	.552	.721	.031	.056	.052	.045
29	.021	.407	.554	.420	.267	.270	.173
30	.689	.946	.977	1.052	1.207	1.231	.938
31	.346	.663	.765	.733	.588	.624	.269
32	.147	.490	.643	.561	.542	.451	.416
33	-.040	.313	.458	.430	.388	.272	-.083

$\alpha = 30^\circ$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-.460	-2.110	-3.660	.396	.767	.814	-1.080
2	-1.441	-3.079	-4.465	-.111	-.132	-.197	-1.425
3	-1.609	-3.285	-4.335	-.136	-.572	-.557	-1.590
4	-1.802	-3.079	-3.888	-.614	-.972	-.995	-1.481
5	-1.585	-2.640	-2.983	-.731	-1.220	-1.226	-1.193
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.028	-1.648	-1.821	-.954	-1.252	-.825	-.764
11	-.837	-1.270	.000.000	-.951	-1.209	-.816	-.615
12	-1.163	-.837	-.677	-.650	-.880	-.569	-.491
13	-.886	-.645	-.501	-.481	-.624	-.479	-.350
14	-1.111	-.622	-.481	-.470	-.597	-.225	-.369
15	-.428	-.880	.372	.314	.091	.108	-.356
16	-.568	.198	.353	.450	.300	.295	-.120
17	-.499	.123	.288	.437	.342	.324	-.010
18	-.449	.073	.216	.354	.248	.236	-.091
19	-.531	-.200	-.160	.043	-.082	-.024	-.107
20	-1.279	-.767	-.626	-.604	-.742	-.647	-.509
21	-2.031	-1.115	-.680	-.942	-1.087	-.915	-.596
22	-2.331	-1.083	-.582	-.944	-.991	-.905	-.584
23	-1.960	-.579	-.306	-.402	-.415	-.567	-.488
24	-.750	-.010	.037	.122	.124	.018	-.218
25	.814	-.107	-1.509	.808	1.038	1.212	-.450
26	1.059	.979	.655	.157	.000.000	.787	.155
27	.604	.957	.987	.344	.294	.063	.104
28	.230	.640	.757	.051	.150	.064	.024
29	.002	.429	.591	.374	.313	.256	.152
30	.664	.920	.984	1.039	1.200	1.165	.887
31	.305	.669	.760	.732	.709	.644	.266
32	.130	.492	.644	.552	.554	.389	.293
33	-.040	.313	.454	.410	.397	.231	-.056

Table 20.- Continued.

(b) $C_{T,S} = 0.80$, $q_s = 19.98$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.848	-2.613	-4.334	.155	.543	.653	-1.187
2	-1.944	-3.935	-5.329	-.612	-.499	-.336	-1.434
3	-1.976	-3.727	-4.828	-.731	-.896	-.596	-1.350
4	-2.200	-3.805	-4.704	-1.026	-1.328	-1.126	-1.413
5	-1.855	-2.931	-3.411	-1.124	-1.485	-1.191	-1.024
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.134	-1.774	-1.884	-1.233	-1.353	-.660	-.450
11	-.961	-1.347	*000.000	-1.090	-1.313	-.684	-.418
12	-1.074	-.835	-.707	-.671	-.888	-.481	-.376
13	-1.094	-.746	-.571	-.546	-.702	-.462	-.320
14	-1.263	-.679	-.514	-.534	-.816	-.218	-.309
15	-.564	-.861	.410	.351	.083	.149	-.184
16	-.741	.157	.318	.448	.256	.255	-.041
17	-.718	.102	.272	.470	.298	.362	-.018
18	-.635	.062	.193	.352	.206	.204	-.034
19	-.680	-.230	-.184	.032	-.132	-.007	-.120
20	-1.517	-.756	-.627	-.685	-.827	-.659	-.394
21	-2.375	-1.134	-.760	-1.028	-1.141	-.820	-.473
22	-2.694	-1.149	-1.651	-1.065	-1.127	-.948	-.594
23	-2.045	-.583	-.359	-.432	-.481	-.540	-.487
24	-.840	-.053	-.063	.124	.086	-.080	-.231
25	.623	-.577	-2.102	.802	1.164	1.260	-.731
26	1.107	.451	.586	.181	*000.000	.932	.040
27	.692	.991	1.082	.560	.352	.111	.197
28	.248	.643	.776	.051	.181	.044	.139
29	-.024	.438	.586	.406	.304	.288	.202
30	.610	.923	1.007	1.171	1.233	1.132	.849
31	.277	.683	.767	.780	.737	.601	.526
32	.101	.512	.643	.626	.579	.440	.437
33	-.041	.281	.445	.441	.373	.273	0.

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.399	-3.346	-5.258	-.208	.280	.612	-1.480
2	-2.467	-4.457	-5.776	-.863	-.753	-.347	-1.318
3	-2.674	-4.580	-5.580	-.855	-1.221	-.789	-1.442
4	-2.557	-4.166	-4.938	-1.387	-1.432	-.973	-1.062
5	-2.180	-3.323	-3.854	-1.459	-1.716	-1.260	-.925
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.303	-1.914	-1.950	-1.413	-1.469	-.667	-.383
11	-1.194	-1.506	*000.000	-1.279	-1.382	-.643	-.507
12	-1.101	-.887	-.743	-.786	-.891	-.471	-.413
13	-1.310	-.760	-.610	-.618	-.682	-.375	-.285
14	-1.547	-.716	-.547	-.580	-.615	-.150	-.275
15	-.818	-.935	.415	.353	.078	.206	-.391
16	-1.053	.163	.325	.457	.285	.311	-.076
17	-.968	.065	.254	.449	.332	.362	-.114
18	-.836	.023	.161	.333	.204	.230	-.011
19	-.925	-.299	-.252	-.022	-.118	-.027	-.174
20	-1.773	-.844	-.712	-.742	-.756	-.598	-.471
21	-2.616	-1.142	-.837	-1.099	-1.155	-.830	-.513
22	-2.888	-1.126	-.777	-1.119	-1.102	-.898	-.595
23	-2.115	-.599	-.441	-.438	-.530	-.592	-.462
24	-1.118	-.129	-.141	.085	.051	-.078	-.222
25	.360	-1.120	-2.655	.883	1.205	1.290	-.668
26	1.080	.843	.479	.170	*000.000	.910	-.015
27	.754	1.079	.998	.548	.523	.156	.085
28	.276	.715	.839	.052	.252	.165	.139
29	-.092	.493	.620	.401	.332	.239	.122
30	.516	.945	1.023	1.173	1.242	1.183	.880
31	.228	.703	.795	.775	.764	.657	.297
32	.043	.489	.646	.583	.564	.377	.299
33	-.069	.286	.450	.443	.374	.271	-.050

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.943	-4.112	-5.754	-.355	.181	.570	-1.338
2	-3.035	-5.015	-6.200	-1.213	-.906	-.532	-1.259
3	-3.155	-5.185	-6.114	-1.517	-1.313	-.708	-1.238
4	-2.974	-4.510	-5.121	-1.626	-1.572	-.998	-1.127
5	-2.444	-3.557	-3.857	-1.625	-1.802	-1.201	-.942
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.439	-2.059	-2.005	-1.598	-1.525	-.567	-.368
11	-1.207	-1.449	*000.000	-1.290	-1.290	-.585	-.378
12	-1.151	-.963	-.746	-.885	-.878	-.405	-.301
13	-1.455	-.774	-.580	-.617	-.604	-.362	-.424
14	-1.789	-.730	-.591	-.612	-.613	-.118	-.454
15	-1.022	-.938	.484	.355	.051	.260	-.172
16	-1.164	.141	.332	.452	.255	.236	-.101
17	-1.148	.026	.265	.421	.342	.288	-.100
18	-.980	-.018	.163	.309	.253	.147	-.111
19	-1.107	-.330	-.203	-.064	-.112	0.	-.129
20	-2.204	-.936	-.745	-.832	-.771	-.568	-.496
21	-3.035	-1.425	-.951	-1.228	-1.142	-.864	-.584
22	-2.968	-1.059	-.800	-1.109	-1.088	-.887	-.567
23	-2.017	-.588	-.511	-.463	-.565	-.476	-.461
24	-1.116	-.229	-.134	.079	.011	-.118	-.211
25	-.033	-1.523	-2.933	.867	1.137	1.132	-1.108
26	1.047	.776	.445	1.036	*000.000	.931	-.140
27	.754	1.055	.983	1.012	.530	.202	.156
28	.281	.696	.848	.014	.225	.165	.128
29	-.115	.447	.636	.388	.314	.213	.135
30	.439	.920	1.046	1.174	1.234	.934	.432
31	.199	.696	.795	.751	.713	.570	.205
32	.039	.496	.664	.566	.556	.349	.112
33	-.040	.241	.429	.380	.353	.184	-.024

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.632	-4.458	-6.205	-.530	.059	.442	-1.119
2	-3.779	-5.704	-6.754	-1.663	-1.143	-.581	-.949
3	-3.874	-5.728	-6.641	-1.631	-1.663	-.837	-1.040
4	-3.370	-4.821	-5.383	-1.974	-1.827	-1.066	-.829
5	-2.613	-3.574	-3.801	-1.760	-1.738	-.835	-.458
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.739	-2.255	-2.131	-1.736	-1.575	-.569	-.394
11	-1.309	-1.513	*000.000	-1.340	-1.244	-.409	-.350
12	-1.095	-.931	-.709	-.824	-.714	-.340	-.286
13	-1.778	-.845	-.682	-.640	-.589	-.393	-.271
14	-2.105	-.797	-.641	-.609	-.575	-.064	-.382
15	-1.130	-.849	.406	.323	.049	.258	-.029
16	-1.295	.101	.287	.449	.285	.316	-.035
17	-1.216	.019	.228	.451	.374	.221	-.019
18	-1.067	-.064	.129	.309	.249	.154	-.062
19	-1.247	-.430	-.288	-.035	-.054	-.038	-.139
20	-2.426	-1.025	-.853	-.801	-.658	-.491	-.407
21	-2.985	-1.182	-1.007	-1.031	-.776	-.644	-.402
22	-3.147	-1.165	-.982	-1.179	-1.019	-.874	-.566
23	-1.803	-.728	-.658	-.461	-.552	-.534	-.446
24	-.885	-.245	-.186	.102	-.023	-.121	-.069
25	-.527	-1.955	-3.446	.924	1.261	1.014	-.840
26	.882	.733	.347	.814	*000.000	.668	-.096
27	.744	1.054	.996	1.064	.582	.220	-.039
28	.272	.743	.865	.068	.271	.147	.142
29	-.128	.469	.638	.418	.322	.161	.206
30	.383	.955	1.034	1.252	1.274	.726	.368
31	.092	.692	.688	.711	.655	.510	.193
32	0.	.512	.662	.598	.533	.300	.233
33	-.061	.242	.402	.419	.340	.186	-.032

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.629	-5.371	-6.761	-1.045	-.286	-.183	-1.239
2	-4.563	-6.271	-7.062	-1.743	-1.192	-.380	-.820
3	-4.466	-6.135	-6.517	-2.036	-1.744	-.561	-.663
4	-3.992	-5.395	-5.747	-2.151	-1.905	-.958	-.308
5	-3.124	-4.231	-4.331	-2.081	-1.922	-.838	-.461
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.763	-2.350	-2.068	-1.876	-1.497	-.424	-.104
11	-1.265	-1.571	*000.000	-1.399	-1.106	-.411	-.287
12	-1.160	-.983	-.754	-.893	-.633	-.327	-.251
13	-1.911	-.898	-.677	-.619	-.469	-.284	-.195
14	-2.111	-.808	-.626	-.585	-.410	.016	-.250
15	-1.114	-.821	.431	.330	.045	.167	-.070
16	-1.215	.076	.281	.448	.350	.251	.038
17	-1.068	-.072	.186	.378	.368	.151	-.025
18	-.989	-.126	.103	.262	.298	.101	.005
19	-1.118	-.462	-.302	-.111	.007	-.049	-.187
20	-2.469	-1.174	-.987	-.886	-.614	-.519	-.485
21	-3.029	-1.280	-1.107	-1.061	-.629	-.486	-.430
22	-2.716	-1.149	-.947	-1.064	-.830	-.553	-.452
23	-1.524	-.758	-.691	-.482	-.502	-.445	-.487
24	-.798	-.266	-.189	.066	0.	-.174	-.175
25	-1.234	-2.179	-3.434	.645	1.108	.883	-.866
26	.674	.736	.301	1.087	*000.000	.702	-.096
27	.571	1.058	.970	1.021	.623	.166	.094
28	.230	.754	.908	.046	.294	.187	.288
29	-.154	.432	.657	.401	.327	.189	.295
30	.344	.924	.953	1.108	1.170	.633	.300
31	.069	.772	.786	.758	.723	.497	.224
32	-.010	.509	.605	.748	.516	.386	.265
33	-.010	.226	.415	.431	.355	.231	-.007

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-4.556	-6.947	-6.765	-1.028	-.337	.274	-.739
2	-4.921	-6.503	-6.726	-1.913	-1.162	-.196	-.558
3	-4.920	-6.797	-6.784	-2.069	-1.740	-.428	-.400
4	-4.173	-5.586	-5.471	-2.145	-1.849	-.775	-.458
5	-3.105	-4.345	-4.149	-2.142	-1.887	-.789	-.414
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.643	-2.357	-2.003	-1.768	-1.444	-.411	-.290
11	-1.240	-1.637	*000.000	-1.388	-1.108	-.287	-.240
12	-1.134	-1.006	-.752	-.847	-.582	-.217	-.280
13	-1.810	-.859	-.673	-.547	-.435	-.250	-.289
14	-1.798	-.793	-.670	-.504	-.343	.138	-.290
15	-1.012	-.724	.445	.389	.100	.240	-.063
16	-1.032	.054	.217	.424	.302	.231	-.143
17	-.951	-.048	.181	.392	.350	.227	-.062
18	-.865	-.133	.070	.235	.320	.117	-.100
19	-1.027	-.468	-.295	-.042	.052	.012	-.108
20	-1.921	-1.205	-.918	-.771	-.524	-.388	-.340
21	-2.499	-1.196	-1.074	-.950	-.838	-.495	-.329
22	-2.182	-1.114	-1.013	-1.022	-.782	-.632	-.519
23	-1.208	-.695	-.691	-.412	-.411	-.268	-.321
24	-.646	-.267	-.117	.046	-.073	-.101	-.167
25	-2.220	-2.453	-3.280	.590	1.057	.477	-.761
26	.088	.594	.310	1.088	*000.000	.648	-.156
27	.403	1.099	1.077	.831	.639	.243	.101
28	.124	.702	.877	.110	.263	.132	.096
29	-.194	.386	.615	.337	.267	.141	.080
30	.291	1.007	.927	1.188	1.201	.707	.196
31	.027	.705	.578	.719	.646	.611	.110
32	.007	.477	.533	.593	.556	.482	.156
33	.040	.237	.357	.427	.287	.266	-.067

Table 20. - Continued.

(b) $C_{T,s} = 0.80$, $q_s = 19.98$

$\alpha = 65°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-5.147	-6.701	-6.741	-1.021	-.137	.175	-.676
2	-5.344	-7.071	-6.856	-2.004	-1.149	-.197	-.374
3	-5.071	-7.100	-6.700	-2.391	-1.665	-.260	-.324
4	-4.255	-6.104	-5.608	-2.348	-1.643	-.459	-.436
5	-3.147	-4.601	-4.095	-2.190	-1.845	-.601	-.371
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.689	-2.520	-2.048	-1.869	-1.359	-.291	-.159
11	-1.139	-1.594	*000.000	-1.353	-1.016	-.301	-.232
12	-1.180	-1.648	-.816	-.878	-.579	-.245	-.290
13	-1.487	-.911	-.730	-.598	-.459	-.242	-.285
14	-1.008	-.873	-.698	-.516	-.386	.111	-.281
15	-.850	-.806	.337	.307	.040	.148	-.044
16	-.887	.051	.206	.394	.393	.164	-.013
17	-.760	.013	.176	.373	.367	.159	-.065
18	-.744	-.122	.024	.281	.353	.120	-.080
19	-.871	-.500	-.341	-.048	.119	-.023	-.126
20	-1.010	-1.077	-.927	-.631	-.608	-.405	-.321
21	-2.040	-1.211	-1.045	-.975	-.793	-.415	-.368
22	-1.780	-1.111	-1.084	-.958	-.721	-.466	-.378
23	-1.065	-.891	-.646	-.443	-.385	-.265	-.309
24	-.808	-.281	-.047	.029	-.003	-.109	-.153
25	-3.413	-3.445	-3.868	.486	1.048	.192	-.649
26	-.373	.409	.266	.566	*000.000	.393	-.158
27	.047	.923	.977	1.049	.622	.235	.063
28	.055	.616	.867	.112	.259	.108	.107
29	-.171	.323	.608	.355	.291	.120	.077
30	.149	.675	.591	1.041	1.066	.712	.051
31	.031	.758	.539	.799	.686	.639	.116
32	.012	.459	.421	.557	.549	.491	.279
33	.055	.138	.290	.356	.367	.234	.023

$\alpha = 70°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-5.248	-7.131	-6.408	-1.077	-.193	.067	-.403
2	-5.193	-7.650	-7.315	-2.239	-1.113	.240	-.224
3	-4.693	-7.332	-6.724	-2.148	-1.394	-.156	-.298
4	-3.498	-6.005	-5.642	-2.406	-1.654	-.297	-.176
5	-2.447	-4.554	-4.002	-2.124	-1.591	-.394	-.292
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.329	-2.332	-1.928	-1.714	-1.104	-.240	-.121
11	-1.023	-1.578	*000.000	-1.341	-.893	-.334	-.259
12	-1.093	-1.011	-.835	-.853	-.577	-.269	-.239
13	-1.681	-.956	-.791	-.615	-.464	-.240	-.247
14	-1.465	-.898	-.743	-.530	-.402	.044	-.203
15	-.713	-.828	.333	.273	.003	.080	-.043
16	-.754	.107	.175	.388	.302	.185	.020
17	-.629	.008	.151	.365	.341	.151	-.013
18	-.610	-.078	.048	.271	.306	.046	-.014
19	-.759	-.451	-.383	-.076	-.025	-.129	-.215
20	-1.406	-.926	-.674	-.730	-.470	-.386	-.255
21	-1.547	-1.084	-1.034	-.890	-.504	-.405	-.358
22	-1.314	-.961	-.987	-.943	-.671	-.411	-.294
23	-.744	-.625	-.549	-.457	-.426	-.312	-.308
24	-.459	-.263	-.116	-.038	-.056	-.109	-.124
25	-3.840	-3.716	-3.416	.518	1.001	.183	-.268
26	-.693	.095	.305	.992	*000.000	.098	-.039
27	-.201	.803	.986	1.031	.543	.071	.139
28	-.002	.447	.769	.079	.284	.062	.169
29	-.094	.295	.529	.353	.269	.112	.158
30	.170	.895	.583	1.095	1.065	.651	.189
31	.054	.711	.467	.777	.674	.518	.226
32	.079	.434	.395	.691	.467	.310	.188
33	.128	.129	.234	.355	.282	.158	.001

$\alpha = 75°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-4.298	-6.526	-6.127	-.684	.336	.260	-.143
2	-3.083	-4.531	-5.448	-2.242	-1.018	-.122	-.244
3	-2.304	-3.654	-4.944	-1.917	-.973	.128	-.180
4	-2.762	-5.872	-5.305	-2.231	-1.115	-.140	-.163
5	-2.214	-4.236	-4.144	-2.097	-1.303	-.339	-.214
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.317	-1.920	-1.446	-1.853	-1.105	-.353	-.216
11	-1.086	-1.462	*000.000	-1.230	-.573	-.165	-.150
12	-1.130	-1.025	-.872	-.789	-.418	-.218	-.208
13	-1.342	-.882	-.788	-.579	-.367	-.316	-.286
14	-1.157	-.727	-.645	-.447	-.278	.035	-.180
15	-.534	-.628	.302	.281	.032	.149	0.
16	-.594	.100	.171	.391	.316	.090	.015
17	-.639	-.027	.095	.324	.309	.117	-.055
18	-.613	-.099	-.024	.325	.346	.047	-.063
19	-.515	-.361	-.245	-.047	.016	-.088	-.135
20	-1.134	-.805	-.767	-.536	-.247	-.228	-.251
21	-1.164	-.910	-.962	-.831	-.641	-.383	-.266
22	-1.002	-.855	-.960	-.802	-.437	-.286	-.391
23	-.503	-.546	-.516	-.315	-.245	-.179	-.187
24	-.334	-.196	-.094	-.053	-.067	-.223	-.165
25	-3.775	-3.715	-3.379	.480	1.000	.108	-.050
26	-.430	-.326	.222	.553	*000.000	.104	-.028
27	-.377	.232	.923	.817	.544	.097	.008
28	-.007	.331	.725	.103	.219	.053	.110
29	-.102	.238	.427	.312	.295	.165	.151
30	.108	.611	.484	1.032	1.041	.727	.244
31	-.007	.488	.327	.638	.620	.333	.115
32	-.002	.300	.300	.635	.448	.294	.175
33	.110	.141	.226	.348	.276	.174	.020

$\alpha = 80°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-1.634	-2.625	-3.494	-.573	.585	-.110	-.072
2	-1.100	-2.237	-3.719	-1.869	-.573	-.076	-.114
3	-.946	-2.027	-3.611	-1.941	-.743	-.146	-.121
4	-.618	-1.944	-2.150	-2.121	-1.205	-.290	-.347
5	-.405	-.400	-1.255	-1.918	-.919	-.225	-.269
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.935	-.476	-.832	-1.576	-.842	-.102	-.098
11	-.754	-.436	*000.000	-1.079	-.581	-.106	-.258
12	-.682	-.763	-.858	-.686	-.481	-.226	-.217
13	-.650	-.592	-.592	-.449	-.349	-.180	-.245
14	-.637	-.508	-.607	-.408	-.275	.003	-.211
15	-.404	-.674	.278	.249	-.024	.141	.029
16	-.359	.088	.148	.409	.254	.085	-.012
17	-.353	-.044	-.007	.342	.312	.171	-.001
18	-.222	-.039	.031	.276	.263	.107	-.033
19	-.293	-.330	-.309	-.126	-.055	-.041	-.165
20	-.863	-.813	-.913	-.601	-.482	-.450	-.373
21	-.794	-.712	-.867	-.728	-.514	-.428	-.340
22	-.776	-.657	-.948	-.913	-.561	-.402	-.384
23	-.441	-.479	-.453	-.368	-.428	-.386	-.288
24	-.437	-.351	-.139	-.195	-.185	-.165	-.100
25	-1.758	-1.928	-2.177	.737	1.054	-.257	-.275
26	-.525	-.019	.490	.724	*000.000	.065	.094
27	-.193	.165	.782	.723	.330	-.041	-.046
28	-.014	.294	.690	.149	.137	-.046	.083
29	-.047	.222	.319	.281	.209	.118	.141
30	.185	.631	.477	1.086	1.090	.473	.150
31	.059	.440	.311	.605	.493	.452	.250
32	.099	.315	.301	.464	.372	.359	.300
33	.112	.124	.188	.234	.212	.192	.057

Table 20. - Continued.

(c) $C_{T,s} = 0.60$, $q_s = 21.90$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.853	.692	.338	-.003	1.085	1.097	.446
2	.367	.073	-.055	.575	1.004	.845	.133
3	.062	-.410	-.487	.558	.674	.505	.030
4	-.240	-.748	-.792	.139	.270	.040	-.329
5	-.618	-1.076	-1.075	-.210	-.290	-.433	-.530
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.670	-1.020	-1.222	-.726	-.763	-.487	-.649
11	-.658	-1.011	*000.000	-.826	-.913	-.743	-.609
12	-1.136	-.709	-.731	-.656	-.751	-.583	-.491
13	-.483	-.632	-.613	-.469	-.610	-.511	-.390
14	-.502	-.546	-.508	-.455	-.549	-.152	-.332
15	-.250	-.291	-.032	.184	.100	-.042	-.183
16	.175	.054	.135	.193	.276	.191	.011
17	.174	.086	.215	.188	.258	.208	.033
18	.213	.081	.140	.136	.196	.121	-.012
19	.061	-.157	-.130	-.020	-.067	-.066	-.096
20	-.523	-.675	-.647	-.421	-.590	-.515	-.372
21	-.694	-1.024	-.941	-.730	-.908	-.818	-.503
22	-.416	-.972	-.883	-.690	-.873	-.860	-.518
23	-.867	-.418	-.327	-.097	-.252	-.407	-.280
24	-.636	-.086	.091	-.013	.051	.038	-.093
25	.987	1.099	.618	-.016	.364	.716	.507
26	.469	.773	.543	.410	*000.000	.400	.149
27	-.086	.185	.094	-.360	-.547	-.428	-.106
28	-.111	.030	.049	-.113	-.271	-.186	-.056
29	.012	.196	.171	.181	.117	.115	-.024
30	.904	1.017	.957	.319	1.158	1.150	.308
31	.410	.601	.532	.389	.596	.519	.141
32	.200	.442	.420	.348	.440	.383	.396
33	.028	.365	.346	.334	.250	.269	-.105

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.613	.073	-.487	.450	1.090	1.016	.301
2	-.140	-.852	-1.136	.531	.606	.368	-.204
3	-.343	-.988	-1.153	.069	.246	.083	-.446
4	-.761	-1.548	-1.714	-.170	-.210	-.431	-.769
5	-1.072	-1.763	-1.836	-.563	-.723	-.853	-.988
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.824	-1.498	-1.467	-.878	-1.049	-.789	-1.051
11	-.709	-1.135	*000.000	-.935	-1.058	-.897	-.806
12	-1.214	-.831	-.804	-.717	-.856	-.711	-.615
13	-.564	-.672	-.543	-.498	-.657	-.578	-.500
14	-.617	-.595	-.513	-.487	-.605	-.239	-.430
15	-.178	-.369	.074	.248	.070	-.022	-.261
16	.011	.112	.161	.266	.272	.185	-.080
17	.055	.110	.190	.240	.282	.233	-.004
18	.080	.096	.174	.186	.224	.162	-.041
19	-.027	-.194	-.168	-.063	-.119	-.063	-.107
20	-.654	-.714	-.631	-.452	-.650	-.579	-.472
21	-1.055	-1.011	-.855	-.732	-.951	-.830	-.597
22	-1.274	-.995	-.795	-.751	-.915	-.869	-.629
23	-1.201	-.471	-.297	-.181	-.297	-.412	-.392
24	-.757	.069	.124	.047	.089	.064	-.105
25	1.141	1.113	.359	.078	.624	1.127	.573
26	.900	1.035	.661	.367	*000.000	.697	.547
27	.197	.493	.444	-.036	-.224	-.104	.048
28	.039	.238	.298	-.097	-.087	-.023	.039
29	.015	.264	.262	.263	.221	.222	.173
30	.834	.946	.819	.652	1.140	1.134	1.016
31	.415	.661	.563	.522	.672	.661	.413
32	.228	.483	.493	.396	.469	.432	.382
33	.013	.357	.392	.337	.333	.311	-.221

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.191	-.655	-1.480	.133	.822	.701	-.187
2	-.583	-1.699	-2.340	-.509	-.020	-.250	-.949
3	-.905	-1.959	-2.109	-.552	-.362	-.614	-1.105
4	-1.121	-2.073	-2.205	-.755	-.735	-1.049	-1.308
5	-1.218	-2.110	-2.111	-.909	-1.187	-1.389	-1.419
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.003	-1.523	-1.650	-1.158	-1.327	-1.026	-1.334
11	-.822	-1.291	*000.000	-1.057	-1.307	-1.123	-1.011
12	-1.246	-.830	-.789	-.696	-.885	-.726	-.640
13	-.663	-.734	-.630	-.488	-.716	-.652	-.561
14	-.774	-.647	-.546	-.492	-.642	-.270	-.511
15	-.240	-.567	.210	.333	.107	.044	-.506
16	-.226	.143	.200	.382	.251	.198	-.203
17	-.185	.097	.219	.352	.293	.269	-.069
18	-.117	.070	.145	.269	.197	.178	-.077
19	-.221	-.215	-.190	.043	-.146	-.113	-.133
20	-.881	-.804	-.687	-.615	-.788	-.764	-.526
21	-1.398	-1.065	-.874	-.825	-1.023	-.888	-.610
22	-1.699	-1.050	-.802	-.858	-.966	-.966	-.694
23	-1.598	-.507	-.347	-.295	-.315	-.457	-.455
24	-.728	.028	.103	.131	.109	.072	-.114
25	.989	.703	-.338	.145	.899	1.191	.604
26	.901	1.024	.596	.289	*000.000	.933	.783
27	.385	.717	.662	.331	.173	.231	.269
28	.124	.380	.498	-.052	.100	.135	.124
29	.060	.367	.395	.385	.342	.339	.320
30	.758	.943	.879	1.057	1.220	1.187	1.081
31	.406	.661	.610	.718	.736	.721	.590
32	.174	.472	.497	.556	.576	.489	.528
33	.017	.346	.405	.401	.366	.325	-.097

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.324	-1.743	-3.154	-.544	.368	.258	-.859
2	-1.322	-2.915	-3.851	-1.122	-.653	-.869	-1.679
3	-1.492	-2.912	-3.429	-1.249	-1.006	-1.144	-1.707
4	-1.617	-2.970	-3.447	-1.358	-1.439	-1.714	-2.033
5	-1.633	-2.693	-2.858	-1.398	-1.666	-1.864	-1.898
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.208	-1.846	-2.021	-1.487	-1.729	-1.337	-1.724
11	-.945	-1.417	*000.000	-1.255	-1.496	-1.297	-1.136
12	-1.304	-.893	-.790	-.801	-.993	-.861	-.747
13	-.714	-.675	-.557	-.506	-.674	-.616	-.546
14	-.964	-.688	-.539	-.563	-.671	-.260	-.551
15	-.307	-.649	.373	.354	.150	.126	-.493
16	-.428	.149	.266	.464	.311	.241	-.226
17	-.410	.095	.226	.411	.304	.302	-.155
18	-.365	.026	.126	.313	.219	.176	-.169
19	-.407	-.248	-.207	.030	-.138	-.108	-.179
20	-1.112	-.827	-.694	-.659	-.773	-.722	-.503
21	-1.783	-1.143	-.871	-.974	-1.104	-.982	-.688
22	-2.080	-1.198	-.855	-1.017	-1.121	-1.119	-.814
23	-2.201	-.591	-.340	-.356	-.372	-.452	-.492
24	-.863	.022	.076	.109	.145	.056	-.173
25	.987	.214	-1.269	.486	1.161	1.319	.263
26	1.002	.981	.559	.342	*000.000	1.065	.673
27	.602	.874	.809	.543	.414	.431	.331
28	.251	.544	.661	.094	.258	.245	.208
29	.054	.442	.534	.415	.404	.396	.328
30	.677	.928	.917	1.139	1.222	1.211	1.044
31	.395	.714	.715	.748	.806	.769	.548
32	.171	.497	.557	.568	.558	.476	.496
33	.013	.358	.428	.465	.433	.354	-.161

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.922	-2.700	-4.454	-1.057	-.201	-.175	-1.784
2	-2.035	-4.074	-5.291	-1.887	-1.559	-1.686	-2.487
3	-2.251	-4.265	-5.334	-2.313	-2.139	-2.036	-2.596
4	-2.155	-3.671	-4.390	-2.072	-2.150	-2.185	-2.395
5	-2.172	-3.437	-3.851	-1.998	-2.404	-2.438	-2.386
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.381	-2.041	-2.252	-1.657	-1.960	-1.513	-1.883
11	-1.123	-1.513	*000.000	-1.384	-1.659	-1.323	-1.111
12	-1.400	-.956	-.812	-.852	-1.088	-.898	-.767
13	-.967	-.798	-.628	-.580	-.802	-.689	-.604
14	-1.253	-.747	-.596	-.558	-.735	-.242	-.498
15	-.619	-.697	.452	.470	.170	.154	-.604
16	-.752	.123	.242	.523	.267	.280	-.270
17	-.726	.055	.217	.499	.327	.331	-.213
18	-.617	.020	.141	.395	.212	.135	-.282
19	-.750	-.314	-.250	.025	-.214	-.116	-.241
20	-1.477	-.878	-.732	-.669	-.854	-.783	-.596
21	-2.266	-1.183	-.774	-.960	-1.111	-.980	-.698
22	-2.908	-1.225	-.772	-1.103	-1.174	-1.090	-.763
23	-2.417	-.632	-.365	-.413	-.491	-.535	-.512
24	-.981	-.026	.032	.133	.080	.042	-.150
25	.594	-.508	-1.964	.362	1.045	1.160	-.244
26	1.046	.929	.519	.946	*000.000	1.213	.479
27	.681	.939	.861	.951	.616	.559	.310
28	.271	.637	.720	-.038	.337	.312	.234
29	-.022	.476	.625	.496	.455	.430	.341
30	.605	.932	1.007	1.207	1.272	1.226	.885
31	.284	.683	.729	.813	.792	.702	.531
32	.134	.514	.618	.651	.607	.507	.495
33	-.019	.351	.469	.552	.433	.346	-.121

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.503	-4.009	-5.804	-1.701	-1.047	-.806	-2.593
2	-2.569	-4.996	-6.444	-2.634	-2.229	-1.984	-2.821
3	-2.738	-5.008	-6.154	-2.804	-2.784	-2.375	-2.807
4	-2.642	-4.456	-5.389	-2.799	-2.787	-2.557	-2.558
5	-2.291	-3.650	-4.246	-2.416	-2.741	-2.401	-2.103
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.473	-2.210	-2.480	-2.008	-2.162	-1.501	-1.614
11	-1.138	-1.520	*000.000	-1.531	-1.740	-1.242	-.972
12	-1.400	-.975	-.874	-.969	-1.176	-.789	-.693
13	-1.270	-.902	-.773	-.723	-.984	-.705	-.650
14	-1.719	-.861	-.717	-.722	-.944	-.295	-.688
15	-.785	-.717	.413	.397	.146	.205	-.666
16	-.957	.177	.283	.514	.283	.331	-.181
17	-1.014	.077	.224	.517	.285	.398	-.259
18	-.872	.002	.115	.349	.182	.158	-.248
19	-.927	-.280	-.266	.013	-.241	-.162	-.230
20	-1.978	-.971	-.857	-.841	-1.064	-.904	-.690
21	-2.821	-1.188	-.882	-1.102	-1.303	-1.059	-.741
22	-3.283	-1.204	-.786	-1.177	-1.288	-1.150	-.872
23	-2.345	-.573	-.417	-.487	-.514	-.626	-.643
24	-1.290	-.065	-.032	.112	.055	-.038	-.227
25	.156	-1.387	-2.782	-.013	.935	.993	-1.124
26	1.027	.763	.317	.874	*000.000	1.255	.090
27	.775	.997	.881	.974	.845	.676	.192
28	.376	.731	.787	.533	.462	.370	.262
29	.023	.508	.632	.471	.431	.374	.313
30	.485	.925	.987	1.209	1.250	1.221	.888
31	.299	.747	.750	.835	.792	.702	.570
32	.150	.565	.662	.685	.649	.493	.460
33	.004	.334	.432	.501	.412	.300	.040

Table 20.- Continued.

(c) $C_{T,S} = 0.60$, $q_S = 21.90$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.358	-5.436	-7.448	-2.295	-1.438	-.792	-2.643
2	-3.447	-6.507	-8.044	-3.510	-2.753	-2.068	-2.350
3	-3.371	-5.923	-7.049	-3.372	-2.987	-2.418	-2.438
4	-3.255	-5.500	-6.409	-3.533	-3.371	-2.747	-2.141
5	-2.685	-4.318	-4.957	-3.127	-3.264	-2.421	-1.471
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.702	-2.449	-2.626	-2.455	-2.356	-1.405	-1.070
11	-1.223	-1.530	*000.000	-1.582	-1.677	-.949	-.604
12	-1.475	-1.077	-.959	-1.105	-1.234	-.595	-.522
13	-1.363	-.852	-.745	-.780	-.919	-.580	-.539
14	-1.818	-.805	-.676	-.710	-.749	-.263	-.488
15	-1.028	-.741	.480	.425	.169	.133	-.299
16	-1.185	.172	.302	.515	.266	.261	-.317
17	-1.195	.085	.250	.464	.345	.359	-.149
18	-1.096	-.019	.116	.324	.234	.216	-.158
19	-1.189	-.322	-.283	-.066	-.195	-.176	-.259
20	-2.355	-.927	-.881	-.955	-1.006	-.796	-.634
21	-3.210	-1.137	-.965	-1.237	-1.342	-.977	-.597
22	-3.664	-1.222	-.970	-1.307	-1.371	-1.001	-.776
23	-2.465	-.563	-.560	-.528	-.649	-.744	-.604
24	-1.421	-.196	-.109	-.112	.070	-.182	-.319
25	-.341	-2.675	-4.529	-.161	.984	.981	-1.660
26	.985	.591	.140	.799	*000.000	1.293	-.149
27	.896	1.081	.999	1.093	1.034	.724	.311
28	.431	.874	.998	.739	.615	.471	.299
29	.006	.540	.700	.509	.494	.394	.290
30	.454	1.050	1.141	1.285	1.399	1.245	.722
31	.248	.809	.783	.879	.878	.726	.534
32	.152	.626	.755	.724	.713	.519	.449
33	.023	.348	.522	.482	.495	.322	-.001

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.263	-6.903	-9.060	-3.237	-2.122	-1.151	-2.097
2	-4.360	-7.731	-9.471	-4.620	-3.622	-2.603	-1.873
3	-4.294	-7.448	-8.678	-4.532	-3.931	-2.706	-1.717
4	-4.047	-6.522	-7.607	-4.425	-4.116	-2.906	-1.447
5	-3.235	-5.004	-5.662	-3.672	-3.664	-2.580	-1.089
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.819	-2.523	-2.832	-2.558	-2.317	-1.321	-.773
11	-1.431	-1.751	*000.000	-1.858	-1.921	-.728	-.513
12	-1.526	-1.088	-1.003	-1.104	-1.202	-.576	-.404
13	-1.604	-.887	-.805	-.814	-.852	-.517	-.333
14	-2.314	-.834	-.780	-.791	-.832	-.154	-.426
15	-1.177	-.745	.482	.425	.169	.222	-.412
16	-1.413	.150	.263	.496	.320	.267	-.039
17	-1.439	.033	.183	.438	.324	.289	-.063
18	-1.356	-.057	.077	.293	.218	.200	-.015
19	-1.566	-.416	-.393	-.140	-.285	-.205	-.280
20	-2.774	-1.030	-.952	-1.008	-.999	-.754	-.549
21	-3.757	-1.333	-1.210	-1.398	-1.530	-.992	-.703
22	-3.779	-1.160	-1.105	-1.391	-1.491	-1.146	-.761
23	-2.210	-.604	-.615	-.566	-.681	-.658	-.637
24	-1.279	-.322	-.168	.087	-.022	-.312	-.301
25	-.941	-3.564	-5.439	-.478	.724	.859	-1.365
26	.873	.309	-.184	.676	*000.000	1.171	-.047
27	.872	1.011	.927	1.150	1.069	.756	.219
28	.404	.912	1.006	.745	.646	.425	.318
29	-.096	.565	.735	.498	.470	.387	.492
30	.409	1.115	1.169	1.363	1.410	1.215	.769
31	.209	.837	.801	.882	.831	.678	.571
32	.068	.545	.622	.636	.603	.424	.398
33	-.049	.274	.438	.457	.372	.210	.088

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-4.422	-8.430	-10.737	-3.937	-2.709	-1.368	-1.253
2	-4.924	-8.347	-9.956	-4.855	-3.943	-2.571	-.770
3	-4.917	-8.221	-9.511	-4.934	-4.635	-3.004	-.841
4	-4.106	-6.515	-7.579	-4.451	-4.896	-2.484	-.984
5	-3.509	-5.274	-5.753	-4.053	-3.823	-2.361	-.851
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.943	-2.734	-2.802	-2.693	-2.345	-.931	-.583
11	-1.508	-1.781	*000.000	-1.936	-1.843	-.624	-.412
12	-1.554	-1.134	-1.005	-1.153	-1.178	-.497	-.456
13	-2.143	-1.022	-.946	-.783	-.910	-.569	-.538
14	-2.734	-.902	-.832	-.787	-.831	-.009	-.488
15	-1.176	-.741	.490	.449	.155	.228	.047
16	-1.411	.110	.280	.459	.291	.257	-.012
17	-1.364	-.036	.197	.393	.358	.249	-.057
18	-1.160	-.109	.040	.248	.185	.173	-.135
19	-1.516	-.463	-.342	-.125	-.202	-.031	-.143
20	-3.093	-1.250	-1.126	-1.123	-.999	-.514	-.647
21	-3.560	-1.230	-1.114	-1.288	-1.202	-.632	-.552
22	-3.221	-1.132	-1.083	-1.337	-1.263	-.870	-.708
23	-2.029	-.833	-.719	-.801	-.690	-.510	-.660
24	-1.021	-.414	-.209	.041	-.060	-.285	-.351
25	-1.555	-4.336	-6.204	-.915	.407	.576	-1.248
26	.765	.206	-.330	.625	*000.000	1.110	-.173
27	.867	1.055	.929	1.275	1.230	.860	.340
28	.344	.917	1.050	.723	.632	.360	.374
29	-.129	.576	.799	.548	.484	.384	.299
30	.375	1.101	1.151	1.321	1.417	1.337	.669
31	.164	.846	.788	.868	.813	.717	.462
32	.011	.536	.615	.652	.585	.472	.327
33	-.009	.287	.471	.530	.423	.320	.130

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-4.803	-9.220	-11.038	-4.862	-3.070	-1.587	-.710
2	-5.511	-9.653	-11.005	-5.756	-4.466	-2.138	-.423
3	-5.321	-9.284	-10.126	-5.578	-4.706	-2.381	-.540
4	-4.493	-7.430	-8.160	-5.289	-4.741	-2.170	-.587
5	-3.472	-5.582	-5.960	-4.147	-3.876	-1.563	-.437
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.909	-2.863	-2.967	-2.780	-2.403	-.542	-.380
11	-1.489	-1.874	*000.000	-2.055	-1.955	-.442	-.362
12	-1.622	-1.151	-1.068	-1.201	-1.190	-.461	-.451
13	-2.214	-1.001	-.909	-.879	-.864	-.312	-.394
14	-2.271	-.922	-.881	-.768	-.767	.041	-.399
15	-.927	-.595	.511	.489	.136	.355	-.034
16	-1.032	.169	.338	.516	.311	.386	-.006
17	-.921	.029	.241	.462	.323	.388	-.004
18	-.912	-.067	.119	.321	.211	.257	-.064
19	-1.099	-.468	-.332	-.141	-.243	-.036	-.219
20	-2.116	-1.130	-1.019	-1.004	-.919	-.514	-.547
21	-2.554	-1.161	-1.031	-1.281	-1.155	-.423	-.495
22	-2.438	-1.162	-1.120	-1.274	-1.198	-.501	-.619
23	-1.385	-.766	-.658	-.555	-.691	-.520	-.622
24	-.849	-.339	-.159	.089	-.099	-.402	-.424
25	-2.022	-5.173	-6.501	-1.533	.150	-.177	-.712
26	.398	.010	-.471	.610	*000.000	.646	-.100
27	.461	.954	.815	1.223	1.174	.446	.291
28	.250	.983	1.154	.861	.692	.325	.383
29	-.069	.551	.778	.563	.462	.388	.328
30	.342	1.159	.920	1.345	1.338	1.216	.466
31	.114	.908	.650	.892	.758	.678	.408
32	.021	.568	.482	.680	.553	.411	.381
33	.049	.279	.341	.519	.400	.323	.038

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-5.683	-10.657	-11.672	-5.557	-3.504	-1.172	-.366
2	-6.113	-11.263	-11.926	-6.658	-5.192	-2.005	-.444
3	-5.860	-10.700	-10.896	-6.557	-5.350	-1.873	-.344
4	-4.869	-8.323	-8.614	-5.861	-5.089	-1.698	-.469
5	-3.266	-6.123	-6.385	-4.584	-4.010	-1.021	-.341
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.748	-2.904	-3.020	-2.943	-2.572	-.460	-.430
11	-1.301	-1.794	*000.000	-2.087	-1.900	-.329	-.411
12	-1.719	-1.202	-1.103	-1.254	-1.111	-.315	-.406
13	-2.055	-.976	-.900	-.759	-.724	-.320	-.402
14	-2.175	-1.022	-.913	-.874	-.749	-.024	-.450
15	-.883	-.630	.538	.438	.065	.387	-.177
16	-.978	.108	.285	.491	.324	.390	-.084
17	-.991	-.046	.214	.442	.303	.325	-.070
18	-.804	-.123	.079	.282	.250	.151	-.105
19	-.864	-.513	-.339	-.160	-.140	-.017	-.301
20	-1.782	-1.088	-.971	-1.055	-.885	-.372	-.597
21	-2.159	-1.158	-1.219	-1.404	-1.179	-.467	-.566
22	-1.899	-1.066	-1.086	-1.240	-.968	-.438	-.426
23	-1.127	-.750	-.720	-.625	-.709	-.422	-.491
24	-.735	-.347	-.125	.054	.067	-.339	-.382
25	-3.861	-6.462	-7.345	-2.227	-.089	-.748	-.800
26	-.519	-.344	-.508	.425	*000.000	.202	-.050
27	.004	.778	.889	1.184	1.208	.292	.189
28	.151	.852	1.171	.585	.766	.317	.391
29	-.020	.514	.812	.624	.503	.443	.376
30	.279	1.108	.639	1.321	1.373	.988	.597
31	.048	.851	.547	.884	.738	.615	.484
32	.059	.549	.507	.634	.529	.360	.305
33	.087	.234	.377	.423	.322	.257	.080

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.212	-3.773	-4.131	-5.534	-3.887	-1.256	-.403
2	-3.175	-3.090	-2.252	-6.339	-5.170	-1.081	-.402
3	-2.653	-2.223	-1.672	-6.006	-5.417	-1.267	-.398
4	-1.806	-1.292	-1.074	-5.650	-4.970	-.595	-.351
5	-1.366	-1.117	-.985	-4.227	-4.117	-.586	-.451
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.163	-1.132	-1.025	-2.795	-2.428	-.400	-.428
11	-1.105	-1.149	*000.000	-1.891	-1.652	-.288	-.308
12	-1.126	-1.059	-1.089	-1.249	-1.060	-.310	-.436
13	-1.014	-1.040	-.944	-.961	-.771	-.308	-.453
14	-.854	-.961	-.821	-.937	-.730	-.004	-.481
15	-.382	-.649	.416	.307	.127	.351	-.257
16	-.501	.053	.217	.316	.216	.239	-.149
17	-.327	-.042	.164	.315	.238	.134	-.074
18	-.257	-.060	-.024	.098	.100	.086	-.183
19	-.231	-.386	-.398	-.332	-.293	-.104	-.302
20	-.797	-.773	-.915	-1.169	-.793	-.416	-.475
21	-.964	-.917	-.933	-1.339	-1.022	-.527	-.604
22	-.850	-.899	-.916	-1.382	-1.070	-.419	-.581
23	-.754	-.768	-.748	-.778	-.711	-.461	-.508
24	-.636	-.625	-.576	-.159	-.133	-.336	-.351
25	-2.661	-2.789	-3.190	-2.355	-.253	-.642	-.494
26	-.357	.263	.230	.197	*000.000	-.017	-.055
27	.038	.738	1.039	1.173	1.229	.162	.186
28	.144	.539	.915	.266	.597	.277	.341
29	.054	.383	.623	.473	.435	.384	.338
30	.219	.844	.563	1.204	1.232	.659	.556
31	.068	.558	.419	.719	.571	.392	.460
32	.152	.449	.435	.486	.455	.331	.324
33	.176	.166	.280	.294	.302	.221	.121

Table 20. - Continued.

(d) $C_{T,S} = 0.30$, $q_s = 19.27$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.978	.886	.591	.002	1.160	1.051	.746
2	.351	.073	-.066	.633	.648	.468	.151
3	.192	-.152	-.333	.061	.242	.112	-.127
4	-.298	-.689	-.835	-.361	-.253	-.477	-.619
5	-.686	-1.153	-1.325	-.757	-.733	-.854	-.886
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.851	-1.235	-1.618	-1.383	-1.254	-.903	-1.265
11	-.914	-1.261	*000.000	-1.286	-1.315	-1.178	-1.116
12	-1.408	-.885	-.886	-.859	-.983	-.867	-.768
13	-.522	-.660	-.578	-.523	-.674	-.615	-.541
14	-.608	-.629	-.553	-.534	-.628	-.046	-.470
15	-.303	-.400	-.057	.136	.013	-.136	-.275
16	.049	.048	.107	.149	.219	.044	-.071
17	.079	.017	.150	.121	.229	.087	-.042
18	.131	.041	.120	.071	.181	.066	-.080
19	.007	-.214	-.206	-.116	-.188	-.180	-.179
20	-.639	-.767	-.679	-.588	-.714	-.710	-.553
21	-1.117	-1.115	-.985	-.889	-1.066	-.926	-.636
22	-1.239	-1.091	-.898	-.874	-1.029	-.952	-.656
23	-1.078	-.477	-.360	-.130	-.354	-.419	-.329
24	-.709	.055	.077	-.171	-.011	-.040	-.121
25	.893	1.055	.659	-.007	.722	1.032	.812
26	.358	.610	.436	.595	*000.000	.486	.614
27	-.116	.076	-.145	-.315	-.338	-.227	-.026
28	-.163	-.032	-.085	-.076	-.182	-.154	-.040
29	-.047	.177	.185	.227	.164	.135	.114
30	.881	.929	.933	.598	1.086	1.023	.586
31	.349	.559	.518	.323	.550	.520	.143
32	.145	.393	.416	.403	.415	.347	.298
33	-.036	.291	.324	.333	.239	.193	-.189

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.492	.068	-.398	-.019	.750	.566	.240
2	-.265	-.868	-1.198	-.707	-.133	-.364	-.597
3	-.545	-1.285	-1.470	-1.011	-.867	-.883	-1.059
4	-.940	-1.618	-1.931	-1.410	-1.282	-1.330	-1.405
5	-1.253	-1.946	-2.198	-1.622	-1.599	-1.617	-1.610
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.972	-1.400	-1.745	-1.566	-1.518	-1.163	-1.597
11	-.966	-1.393	*000.000	-1.465	-1.545	-1.388	-1.331
12	-1.436	-.929	-.915	-.902	-1.070	-.958	-.858
13	-.669	-.792	-.712	-.658	-.847	-.798	-.685
14	-.758	-.699	-.620	-.615	-.741	-.134	-.531
15	-.267	-.472	.051	.216	.069	-.069	-.386
16	-.163	-.017	.090	.231	.161	.093	-.170
17	-.110	.037	.115	.178	.207	.140	-.039
18	-.032	.047	.098	.197	.154	.070	-.045
19	-.195	-.265	-.233	-.042	-.202	-.202	-.171
20	-.944	-.924	-.837	-.741	-.919	-.883	-.642
21	-1.407	-1.139	-.948	-.951	-1.124	-.992	-.765
22	-1.610	-1.070	-.874	-.887	-1.032	-.996	-.750
23	-1.624	-.559	-.418	-.340	-.401	-.468	-.505
24	-.820	.009	.055	-.335	.021	-.017	-.171
25	.943	.970	.506	.614	.963	1.130	.887
26	.672	.926	.653	.618	*000.000	.852	.925
27	.130	.417	.270	.200	.037	.178	.288
28	-.042	.124	.134	-.104	-.004	.068	.090
29	-.029	.248	.272	.289	.263	.272	.282
30	.705	.932	.859	.934	1.133	1.058	1.041
31	.341	.593	.541	.530	.647	.603	.495
32	.176	.450	.455	.412	.509	.406	.481
33	-.030	.302	.320	.313	.302	.273	-.131

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.134	-1.043	-1.868	-1.198	-.122	-.260	-.823
2	-1.003	-2.179	-2.773	-2.141	-1.451	-1.609	-1.943
3	-1.486	-2.662	-3.100	-2.189	-1.919	-2.040	-2.284
4	-1.691	-2.920	-3.526	-2.885	-2.449	-2.506	-2.635
5	-1.583	-2.556	-2.956	-2.633	-2.496	-2.420	-2.395
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.274	-1.867	-2.233	-2.183	-2.182	-1.713	-2.427
11	-1.049	-1.516	*000.000	-1.623	-1.805	-1.640	-1.626
12	-1.561	-1.024	-.962	-1.007	-1.219	-1.124	-1.050
13	-.782	-.805	-.686	-.671	-.871	-.856	-.748
14	-1.002	-.771	-.641	-.648	-.771	-.242	-.658
15	-.305	-.517	.178	.265	.111	.097	-.483
16	-.366	.096	.142	.342	.233	.183	-.136
17	-.488	.022	.141	.379	.269	.189	-.175
18	-.367	-.018	.101	.261	.191	.063	-.224
19	-.419	-.318	-.263	-.057	-.221	-.235	-.267
20	-1.125	-.912	-.768	-.757	-.868	-.880	-.699
21	-1.481	-1.278	-.967	-1.125	-1.237	-1.115	-.824
22	-2.111	-1.082	-.767	-1.016	-1.013	-.994	-.827
23	-2.266	-.615	-.381	-.381	-.382	-.483	-.616
24	-.993	.011	.062	.063	.079	-.003	-.209
25	.856	.583	-.140	.198	1.088	1.056	.603
26	.850	.966	.659	.228	*000.000	1.058	.932
27	.346	.649	.541	.297	.459	.530	.496
28	.129	.368	.412	-.012	.266	.280	.258
29	-.012	.309	.372	.338	.377	.380	.345
30	.668	.973	.940	1.200	1.278	1.200	1.174
31	.291	.632	.576	.674	.736	.667	.580
32	.164	.541	.606	.755	.642	.533	.554
33	-.030	.303	.359	.403	.374	.320	-.091

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.850	-2.271	-3.417	-2.257	-1.231	-1.586	-2.336
2	-2.057	-3.750	-4.667	-3.706	-2.838	-3.083	-3.456
3	-2.346	-4.044	-4.859	-3.557	-3.203	-3.394	-3.717
4	-2.282	-3.720	-4.375	-3.403	-3.311	-3.351	-3.448
5	-2.054	-3.240	-3.647	-3.093	-3.301	-3.310	-3.244
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.537	-2.270	-2.676	-2.653	-2.667	-2.186	-3.034
11	-1.162	-1.661	*000.000	-1.753	-2.047	-1.818	-1.761
12	-1.604	-1.015	-.960	-.960	-1.265	-1.178	-1.094
13	-.995	-.859	-.727	-.709	-.935	-.873	-.803
14	-1.257	-.801	-.676	-.641	-.834	-.258	-.685
15	-.537	-.594	.340	.417	.194	.180	-.422
16	-.857	.129	.240	.473	.299	.277	-.244
17	-.718	.012	.153	.456	.247	.277	-.061
18	-.621	.005	.104	.388	.176	.112	-.135
19	-.716	-.334	-.267	-.008	-.241	-.258	-.317
20	-1.511	-.948	-.808	-.817	-.940	-.915	-.757
21	-2.300	-1.251	-.946	-.984	-1.200	-1.054	-.823
22	-3.139	-1.326	-.938	-1.130	-1.196	-1.171	-.990
23	-2.608	-.665	-.402	-.408	-.412	-.527	-.695
24	-1.096	-.015	.016	.104	.040	.005	-.198
25	.512	-.362	-1.496	-.389	1.094	.658	-.089
26	.925	.952	.583	.418	*000.000	1.246	.935
27	.637	.931	.840	.876	.834	.845	.700
28	.301	.594	.656	.015	.509	.545	.435
29	.017	.427	.509	.482	.401	.482	.476
30	.591	1.041	1.050	1.387	1.354	1.289	1.126
31	.332	.743	.718	.833	.804	.765	.709
32	.172	.568	.561	.736	.714	.620	.683
33	.043	.382	.451	.492	.451	.389	-.015

Table 20. - Concluded.

(d) $C_{T,s} = 0.30$, $q_s = 19.27$

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.206	-4.772	-6.319	-4.080	-3.000	-3.075	-4.495
2	-3.059	-5.491	-6.737	-5.137	-4.296	-4.290	-4.715
3	-3.141	-5.388	-6.606	-5.081	-4.635	-4.516	-4.757
4	-3.192	-5.174	-6.152	-4.832	-4.728	-4.792	-4.771
5	-2.724	-4.179	-4.975	-4.111	-4.234	-4.249	-4.036
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.691	-2.489	-2.881	-2.841	-2.907	-2.523	-3.180
11	-1.324	-1.808	*000.000	-1.906	-2.267	-2.033	-1.939
12	-1.988	-1.274	-1.194	-1.221	-1.556	-1.457	-1.336
13	-1.390	-1.020	-.852	-.822	-1.098	-1.106	-1.029
14	-2.089	-1.104	-.921	-.930	-1.163	-.393	-1.044
15	-1.040	-.831	.394	.428	.206	.163	-.664
16	-1.161	.077	.260	.494	.298	.217	-.429
17	-1.257	-.043	.109	.488	.253	.225	-.350
18	-1.030	-.125	.038	.279	.121	.008	-.270
19	-1.108	-.433	-.342	-.098	-.333	-.348	-.478
20	-2.191	-1.137	-.929	-1.037	-1.172	-1.233	-1.036
21	-3.236	-1.482	-1.074	-1.195	-1.416	-1.286	-.936
22	-3.037	-1.415	-.917	-1.109	-1.295	-1.240	-.926
23	-2.729	-.731	-.424	-.413	-.416	-.542	-.628
24	-1.550	-.123	-.044	.043	.049	-.078	-.278
25	-.167	-1.364	-2.492	-.973	.485	-.138	-1.485
26	.786	.684	.335	.278	*000.000	1.196	.378
27	.666	.910	.908	1.086	1.128	1.052	.700
28	.354	.733	.839	.412	.734	.645	.521
29	-.078	.410	.550	.387	.531	.496	.480
30	.353	.898	.836	1.322	1.305	1.166	1.004
31	.161	.723	.678	.907	.867	.791	.767
32	.051	.543	.533	.745	.720	.584	.647
33	.002	.338	.412	.522	.496	.400	.128

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.921	-5.816	-7.506	-4.917	-3.878	-3.486	-4.985
2	-4.122	-7.273	-8.927	-6.366	-5.700	-5.377	-5.785
3	-4.215	-7.300	-8.718	-6.525	-6.554	-5.855	-5.904
4	-4.043	-6.621	-7.769	-6.238	-6.044	-5.731	-5.506
5	-3.135	-4.929	-5.859	-4.871	-5.081	-4.759	-4.392
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.886	-2.769	-3.184	-3.174	-3.206	-2.626	-3.107
11	-1.545	-2.080	*000.000	-2.190	-2.554	-2.032	-1.826
12	-2.030	-1.348	-1.246	-1.241	-1.563	-1.414	-1.249
13	-1.723	-1.130	-.971	-.957	-1.171	-1.089	-.960
14	-2.068	-1.072	-.875	-.851	-.990	-.247	-.839
15	-1.170	-.713	.480	.481	.271	.291	-.555
16	-1.470	.088	.235	.532	.315	.323	-.316
17	-1.341	-.052	.193	.395	.209	.205	-.366
18	-1.403	-.133	.078	.303	.144	.071	-.379
19	-1.612	-.527	-.408	-.230	-.450	-.353	-.536
20	-2.695	-1.132	-.938	-1.038	-1.158	-1.143	-.895
21	-3.944	-1.548	-1.106	-1.307	-1.490	-1.424	-1.047
22	-3.878	-1.432	-.953	-1.201	-1.369	-1.440	-1.180
23	-2.970	-.818	-.590	-.516	-.563	-.838	-1.054
24	-1.766	-.210	-.079	.038	.039	-.037	-.261
25	-1.084	-3.306	-4.879	-2.022	-.146	-.475	-2.657
26	.775	.346	.007	.208	*000.000	1.271	.170
27	.787	.918	.897	1.311	1.349	1.194	.630
28	.417	.814	.978	.819	.902	.766	.547
29	.020	.576	.759	.670	.676	.626	.607
30	.291	.922	.945	1.296	1.291	1.188	.910
31	.213	.748	.883	.926	.883	.771	.716
32	.078	.509	.571	.676	.662	.533	.530
33	-.014	.325	.424	.518	.482	.367	.093

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-4.522	-8.667	-11.070	-7.147	-5.498	-4.757	-6.801
2	-5.045	-8.908	-10.805	-7.643	-6.570	-5.778	-6.075
3	-4.929	-8.496	-10.148	-7.647	-7.204	-5.905	-5.561
4	-4.358	-6.710	-8.136	-6.389	-6.192	-5.430	-5.015
5	-3.314	-5.583	-6.859	-5.220	-5.396	-4.538	-3.811
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-2.245	-3.316	-3.830	-3.668	-3.657	-2.839	-2.618
11	-1.588	-2.090	*000.000	-2.271	-2.579	-1.835	-1.485
12	-1.926	-1.264	-1.205	-1.249	-1.430	-.954	-.890
13	-2.349	-1.081	-.962	-.965	-1.105	-.942	-.923
14	-3.577	-1.042	-.930	-.907	-1.029	-.287	-.790
15	-1.393	-.773	.518	.579	.286	.332	-.552
16	-1.718	.139	.319	.579	.336	.374	-.387
17	-1.637	-.050	.180	.447	.267	.258	-.379
18	-1.596	-.108	.039	.306	.124	.029	-.314
19	-1.816	-.491	-.398	-.209	-.444	-.298	-.345
20	-3.189	-1.232	-1.116	-1.239	-1.304	-1.231	-.996
21	-4.168	-1.459	-1.209	-1.271	-1.485	-1.336	-1.084
22	-3.767	-1.256	-1.028	-1.131	-1.302	-1.329	-1.080
23	-2.733	-.811	-.644	-.547	-.615	-.883	-1.131
24	-1.730	-.352	-.192	-.055	-.048	-.153	-.478
25	-1.807	-4.540	-6.212	-2.667	-.797	-.855	-3.711
26	.634	.067	-.314	.133	*000.000	1.261	-.179
27	.825	.885	.886	1.407	1.437	1.232	.589
28	.498	.934	1.099	.640	1.017	.853	.654
29	-.012	.567	.741	.632	.618	.563	.503
30	.292	1.052	1.033	1.405	1.369	1.238	1.004
31	.221	.867	.813	1.011	.948	.799	.647
32	.101	.651	.659	.810	.794	.635	.580
33	-.009	.287	.408	.507	.439	.323	.102

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.055	-3.864	-3.715	-5.619	-5.044	-3.251	-2.913
2	-4.353	-4.896	-3.446	-7.751	-7.471	-5.301	-3.639
3	-3.994	-4.322	-2.212	-6.895	-7.258	-4.976	-2.084
4	-3.174	-2.274	-1.122	-5.847	-6.349	-4.134	-1.217
5	-2.246	-1.267	-1.078	-4.437	-5.046	-3.099	-1.345
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.058	-1.113	-1.008	-2.652	-3.269	-1.207	-1.366
11	-.911	-1.109	*000.000	-1.463	-2.153	-.869	-.699
12	-1.176	-1.297	-1.330	-1.217	-1.344	-.776	-.818
13	-.820	-1.128	-1.046	-1.053	-1.051	-.692	-.732
14	-.861	-1.091	-.974	-1.226	-1.074	-.174	-.628
15	-.262	-.778	.419	.439	.187	.239	-.274
16	-.310	.114	.220	.452	.253	.314	-.186
17	-.387	-.135	.073	.306	.178	.289	-.211
18	-.220	-.210	-.041	.268	.074	.110	-.218
19	-.283	-.648	-.624	-.541	-.454	-.183	-.383
20	-1.055	-1.241	-1.174	-1.490	-1.279	-.800	-.852
21	-1.139	-1.080	-1.123	-1.284	-1.283	-.679	-.823
22	-1.113	-1.208	-1.256	-1.540	-1.229	-.709	-.822
23	-.815	-.813	-.797	-.671	-.624	-.649	-.574
24	-.938	-.702	-.821	-.668	-.337	-.526	-.543
25	-1.485	-2.521	-2.846	-2.603	-1.252	-.585	-2.264
26	.618	.378	.360	-.010	*000.000	1.176	.164
27	.830	.928	1.025	1.342	1.382	1.153	.608
28	.494	.809	.967	.485	.866	.747	.655
29	.173	.648	.858	.577	.673	.629	.604
30	.580	1.085	1.198	1.439	1.440	1.291	1.114
31	.354	.793	.827	.921	.845	.706	.544
32	.252	.544	.604	.639	.631	.500	.469
33	.105	.224	.319	.392	.366	.230	-.004

Table 21.- Pressure coefficients for wing with propeller rotation up at tip, basic leading edge, fences on, $\delta_f = 40°$.

(a) $C_{T,S} = 0.90$, $q_s = 20.20$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.477	.769	.396	-.049	.909	1.010	.027
2	.199	.035	-.133	.784	1.083	.996	.015
3	-.033	-.230	-.404	.917	1.012	.816	-.100
4	-.356	-.616	-.726	.771	.756	.442	-.209
5	-.514	-.892	-.961	.529	.374	.075	-.198
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.362	-.816	-1.080	-.077	-.204	-.160	-.146
11	-.324	-.617	*000.000	-.431	-.578	-.354	-.249
12	-.475	-.571	-.674	-.415	-.537	-.287	-.225
13	-.296	-.530	-.655	-.399	-.499	-.326	-.193
14	-.380	-.572	-.690	-.522	-.542	-.181	-.265
15	.171	-1.231	.200	.373	.250	.133	-.066
16	.317	.117	.138	.215	.116	.091	-.026
17	-.201	-.585	-.534	-.210	-.371	-.141	-.186
18	-.647	-1.066	-1.182	-.644	-.827	-.705	-.505
19	-.885	-1.457	-1.714	-1.165	-1.343	-.994	-.707
20	-1.042	-1.514	-1.688	-1.265	-1.333	-1.212	-.749
21	-1.046	-1.408	-1.472	-1.008	-1.051	-1.000	-.549
22	-1.074	-.991	-1.040	-.625	-.473	-.715	-.461
23	-.952	-.342	-.116	-.201	-.143	-.210	-.306
24	-.457	-.018	.003	-.217	-.104	-.069	-.177
25	1.028	1.088	.820	-1.125	-.028	.101	.122
26	.618	.928	.908	-1.227	*000.000	-.160	.146
27	.088	.346	.475	-.591	-.762	-.610	.003
28	.038	.209	.290	-.031	-.245	-.186	.080
29	.113	.366	.344	.322	.248	.130	.086
30	.042	1.085	.860	.345	.497	.331	.063
31	.903	1.028	.909	.319	.890	.795	.289
32	.568	.764	.767	.383	.745	.558	.281
33	.312	.536	.546	.338	.442	.356	.178

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.711	.441	.061	.153	1.004	1.024	-.053
2	.015	-.315	-.585	.760	1.023	.905	-.184
3	-.180	-.576	-.851	.770	.874	.718	-.295
4	-.456	-.918	-1.138	.774	.607	.344	-.299
5	-.601	-1.133	-1.236	.358	.153	-.080	-.267
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.416	-.879	-1.179	-.127	-.389	-.253	-.243
11	-.389	-.895	*000.000	-.419	-.664	-.441	-.270
12	-1.030	-.571	-.706	-.368	-.584	-.357	-.250
13	-.344	-.555	-.630	-.378	-.533	-.321	-.250
14	-.442	-.573	-.644	-.419	-.549	-.246	-.207
15	.082	-1.276	.228	.341	.210	.184	.121
16	.231	.112	.133	.253	.102	.011	.042
17	-.300	-.668	-.540	-.098	-.454	-.241	-.164
18	-.736	-1.082	-1.125	-.606	-.863	-.751	-.368
19	-1.155	-1.524	-1.678	-1.088	-1.430	-1.129	-.657
20	-1.360	-1.673	-1.788	-1.282	-1.501	-1.281	-.786
21	-1.408	-1.486	-1.510	-.947	-1.139	-1.120	-.662
22	-1.284	-1.091	-1.016	-.585	-.634	-.824	-.565
23	-1.129	-.409	-.111	-.147	-.077	-.225	-.345
24	-.421	.006	-.014	-.075	-.097	-.140	-.145
25	1.035	1.041	.724	-.470	.078	.273	-.003
26	.718	.926	.832	-.736	*000.000	-.232	.090
27	.170	.517	.621	-.578	-.596	-.575	.035
28	.051	.289	.399	.093	-.174	-.150	.074
29	.100	.382	.412	.425	.299	.175	.122
30	.785	1.058	.893	.379	.594	.813	.181
31	.867	1.021	.928	.380	1.070	1.032	.404
32	.551	.744	.752	.504	.754	.657	.326
33	.284	.548	.594	.399	.466	.454	.115

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.595	.125	-.522	.431	1.139	1.159	-.247
2	-.240	-.750	-1.276	.768	1.025	.838	-.328
3	-.415	-1.028	-1.388	.739	.793	.666	-.540
4	-.694	-1.237	-1.501	.654	.462	.260	-.494
5	-.785	-1.362	-1.504	.231	.043	-.198	-.443
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.543	-1.083	-1.350	-.243	-.510	-.287	-.373
11	-.479	-1.016	*000.000	-.530	-.741	-.530	-.348
12	-1.109	-.646	-.715	-.448	-.620	-.359	-.304
13	-.534	-.691	-.719	-.474	-.589	-.374	-.323
14	-.603	-.667	-.689	-.541	-.594	-.327	-.244
15	.087	-1.427	.281	.367	.279	.230	.085
16	.115	.082	.103	.192	.089	.145	.034
17	-.511	-.731	-.551	-.223	-.474	-.245	-.193
18	-.977	-1.232	-1.202	-.689	-1.044	-.903	-.427
19	-1.398	-1.582	-1.668	-1.222	-1.491	-1.146	-.602
20	-1.593	-1.622	-1.657	-1.247	-1.435	-1.262	-.742
21	-1.709	-1.568	-1.518	-1.124	-1.139	-1.118	-.713
22	-1.612	-1.166	-1.035	-.660	-.657	-.807	-.550
23	-1.224	-.434	-.133	-.164	-.091	-.198	-.382
24	-.522	-.030	.009	-.116	-.072	-.160	-.145
25	1.083	1.014	.400	-.337	.254	.457	-.121
26	.824	.986	.854	-.290	*000.000	-.054	-.163
27	.214	.625	.711	-.438	-.482	-.470	.110
28	.070	.390	.526	.119	-.136	-.145	.034
29	.078	.438	.439	.378	.337	.228	.114
30	.713	1.019	.906	.363	.712	.763	.077
31	.793	.983	.941	.441	1.090	1.075	.461
32	.511	.754	.788	.547	.790	.700	.487
33	.271	.537	.574	.443	.486	.403	.129

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.465	-.208	-1.078	.368	1.166	1.162	-.185
2	-.365	-1.039	-1.696	.534	.880	.700	-.431
3	-.612	-1.319	-1.778	.594	.676	.489	-.463
4	-.806	-1.499	-1.863	.380	.313	.060	-.462
5	-.849	-1.511	-1.726	.129	-.101	-.296	-.489
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.584	-1.155	-1.390	-.303	-.599	-.371	-.311
11	-.506	-1.010	*000.000	-.560	-.798	-.520	-.351
12	-1.149	-.688	-.778	-.449	-.665	-.398	-.289
13	-.573	-.686	-.703	-.451	-.602	-.400	-.302
14	-.776	-.693	-.694	-.555	-.647	-.373	-.253
15	-.043	-1.456	.311	.330	.288	.214	.108
16	0	.070	.136	.205	.138	.142	.104
17	-.678	-.734	-.566	-.271	-.587	-.255	-.182
18	-1.287	-1.264	-1.234	-.773	-1.136	-.955	-.510
19	-1.751	-1.708	-1.720	-1.232	-1.595	-1.214	-.648
20	-2.073	-1.800	-1.756	-1.339	-1.595	-1.333	-.760
21	-2.149	-1.628	-1.510	-1.178	-1.363	-1.181	-.682
22	-2.127	-1.344	-1.199	-.789	-.791	-.999	-.665
23	-1.449	-.421	-.194	-.137	-.121	-.323	-.568
24	-.562	-.122	-.055	-.122	-.091	-.166	-.121
25	1.105	.938	.183	-.124	.433	.669	-.100
26	.921	1.083	.905	-.247	*000.000	.206	.197
27	.315	.730	.842	-.213	-.345	-.434	.057
28	.111	.450	.573	.130	-.078	-.150	.032
29	.091	.443	.479	.375	.329	.212	.132
30	.723	1.105	.979	.490	.817	.907	.242
31	.761	1.007	.961	.553	1.111	1.086	.421
32	.535	.784	.809	.671	.834	.714	.595
33	.299	.542	.634	.479	.497	.414	.100

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.092	-.664	-1.766	.410	1.110	1.083	-.423
2	-.743	-1.586	-2.347	.491	.769	.612	-.713
3	-.857	-1.857	-2.553	.385	.494	.321	-.748
4	-.997	-1.890	-2.493	.492	.137	-.157	-.564
5	-.943	-1.758	-2.043	-.076	-.284	-.408	-.441
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.675	-1.256	-1.541	-.381	-.678	-.424	-.296
11	-.581	-1.100	*000.000	-.615	-.880	-.576	-.366
12	-1.204	-.738	-.752	-.502	-.673	-.372	-.236
13	-.770	-.771	-.731	-.464	-.615	-.355	-.210
14	-.975	-.761	-.750	-.569	-.657	-.260	-.251
15	-.174	-1.590	.301	.375	.339	.361	.083
16	-.191	.003	.096	.150	.190	.170	.076
17	-.886	-.840	-.652	-.316	-.582	-.213	-.189
18	-1.552	-1.350	-1.279	-.819	-1.157	-.940	-.560
19	-2.155	-1.741	-1.715	-1.242	-1.610	-1.231	-.624
20	-2.417	-1.840	-1.671	-1.434	-1.649	-1.321	-.701
21	-2.568	-1.693	-1.521	-1.214	-1.364	-1.173	-.713
22	-2.296	-1.285	-1.118	-.823	-.887	-.963	-.641
23	-1.453	-.362	-.211	-.131	-.075	-.253	-.447
24	-.721	-.199	-.105	-.086	-.072	-.099	-.089
25	1.037	.671	-.367	-.120	.047	.727	-.259
26	.927	.986	.758	.113	*000.000	.377	.062
27	.412	.809	.874	.045	-.245	-.347	-.047
28	.129	.484	.654	.122	-.015	-.077	.051
29	.060	.464	.539	.437	.356	.233	.125
30	.591	.991	.938	.532	.807	.916	.265
31	.729	.974	.949	.709	1.151	1.049	.615
32	.448	.721	.767	.711	.804	.729	.698
33	.258	.513	.643	.718	.544	.480	.209

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.034	-1.083	-2.450	.682	1.095	1.063	-.601
2	-.952	-2.143	-3.264	.622	.617	.500	-.807
3	-1.167	-2.142	-2.964	.430	.281	.157	-.736
4	-1.326	-2.338	-2.944	.063	-.076	-.287	-.747
5	-1.203	-2.069	-2.439	-.124	-.503	-.604	-.628
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.758	-1.380	-1.624	-.373	-.815	-.455	-.382
11	-.697	-1.248	*000.000	-.588	-.944	-.589	-.370
12	-1.216	-.781	-.751	-.433	-.720	-.409	-.297
13	-.901	-.758	-.687	-.396	-.612	-.378	-.256
14	-1.130	-.772	-.657	-.521	-.656	-.204	-.222
15	-.317	-1.503	.358	.433	.292	.357	.120
16	-.362	-.015	.105	.205	.145	.128	.038
17	-1.260	-.894	-.663	-.318	-.627	-.260	-.214
18	-1.999	-1.487	-1.248	-.944	-1.268	-.937	-.472
19	-2.598	-1.904	-1.607	-1.408	-1.745	-1.099	-.634
20	-2.998	-2.047	-1.713	-1.519	-1.744	-1.332	-.787
21	-3.114	-1.912	-1.495	-1.303	-1.590	-1.192	-.625
22	-2.648	-1.459	-1.070	-.949	-.989	-.876	-.654
23	-1.633	-.505	-.266	-.151	-.137	-.352	-.471
24	-.817	-.129	.128	-.061	-.086	-.073	-.129
25	.951	.458	-.702	.508	.730	.882	-.243
26	1.034	1.019	.758	.445	*000.000	.236	-.012
27	.478	.839	.913	.038	-.126	-.290	-.013
28	.158	.511	.659	.229	-.010	-.054	.032
29	.023	.474	.592	.498	.364	.188	.091
30	.510	.949	.899	.776	.874	.658	.092
31	.606	.920	.924	.989	1.080	1.056	.407
32	.390	.707	.832	.961	.834	.685	.405
33	.222	.482	.641	.571	.520	.381	.125

Table 21. - Continued.

(a) $C_{T,s} = 0.90$, $q_s = 20.20$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.356	-1.441	-2.842	.881	1.030	1.039	-.558
2	-1.240	-2.294	-3.464	.757	.410	.392	-.764
3	-1.534	-2.640	-3.519	.401	.083	.043	-.751
4	-1.643	-2.599	-3.342	.008	-.318	-.305	-.603
5	-1.416	-2.369	-2.734	-.239	-.726	-.634	-.695
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.873	-1.499	-1.735	-.547	-.934	-.477	-.265
11	-.765	-1.214	*000.000	-.748	-.991	-.563	-.307
12	-1.218	-.834	-.792	-.507	-.780	-.421	-.260
13	-1.049	-.836	-.687	-.486	-.661	-.353	-.250
14	-1.378	-.807	-.688	-.603	-.677	-.355	-.255
15	-.517	-1.478	.322	.392	.294	.349	.031
16	-.527	-.087	.088	.204	.122	.155	.028
17	-1.379	-.943	-.695	-.365	-.666	-.287	-.218
18	-2.006	-1.491	-1.156	-.984	-1.239	-.905	-.485
19	-2.878	-1.945	-1.497	-1.465	-1.945	-1.126	-.585
20	-3.257	-2.132	-1.539	-1.662	-1.818	-1.274	-.694
21	-3.126	-2.022	-1.247	-1.444	-1.585	-1.067	-.677
22	-2.727	-1.613	-1.033	-1.041	-.997	-.945	-.587
23	-1.449	-.593	-.292	-.171	-.211	-.385	-.415
24	-.979	-.124	.006	.018	-.085	-.054	-.018
25	.794	.152	-1.142	.576	.818	.909	-.303
26	1.028	.981	.698	.565	*000.000	.395	.058
27	.554	.900	.925	.174	.005	-.254	.041
28	.182	.554	.765	.241	.026	-.041	.062
29	-.004	.485	.614	.473	.359	.207	.113
30	.434	.905	.928	.776	.911	.672	.174
31	.541	.903	.965	.956	1.125	.903	.498
32	.364	.649	.778	.785	.818	.677	.373
33	.159	.431	.564	.540	.524	.410	.101

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.759	-1.912	-3.538	.681	.917	.989	-.851
2	-1.703	-2.795	-4.006	.369	.262	.358	-.824
3	-1.952	-3.025	-3.990	.104	-.119	.147	-.847
4	-2.008	-2.938	-3.723	-.054	-.481	-.382	-.824
5	-1.718	-2.574	-2.985	-.492	-.824	-.634	-.693
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.015	-1.596	-1.840	-.734	-1.058	-.470	-.389
11	-.891	-1.274	*000.000	-.862	-1.074	-.528	-.420
12	-1.129	-.961	-.729	-.655	-.797	-.447	-.412
13	-1.228	-.865	-.721	-.572	-.702	-.450	-.401
14	-1.472	-.848	-.710	-.630	-.672	-.436	-.347
15	-.575	-1.441	.350	.367	.304	.382	-.021
16	-.649	-.113	.100	.109	.087	.108	-.008
17	-1.428	-.999	-.675	-.482	-.694	-.274	-.250
18	-2.241	-1.528	-1.200	-1.048	-1.241	-.764	-.471
19	-3.008	-2.156	-1.548	-1.700	-1.873	-1.115	-.684
20	-3.377	-2.231	-1.337	-1.767	-1.818	-1.211	-.794
21	-3.044	-2.241	-1.276	-1.686	-1.771	-1.159	-.750
22	-2.631	-1.695	-1.049	-1.106	-.957	-.631	
23	-1.459	-.640	-.376	-.312	-.233	-.447	-.504
24	-1.030	-.245	-.032	-.144	-.115	-.096	-.183
25	.598	-.005	-1.305	.695	.888	.945	-.426
26	1.039	.959	.614	.698	*000.000	.470	.005
27	.607	.918	.884	.176	.034	-.178	.053
28	.202	.575	.685	.213	.059	-.037	-.030
29	-.054	.461	.595	.454	.361	.185	.015
30	.389	.945	.920	.847	.996	.653	.092
31	.533	.957	1.000	1.115	1.211	.967	.334
32	.315	.705	.784	.741	.837	.712	.452
33	.164	.487	.658	.587	.579	.388	-.009

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.334	-2.370	-4.106	.600	.927	.954	-.730
2	-2.444	-3.517	-4.790	.057	.120	.179	-.961
3	-2.548	-3.577	-4.715	-.093	-.279	.054	-.862
4	-2.313	-3.149	-3.948	-.351	-.665	-.485	-.731
5	-2.080	-2.858	-3.348	-.662	-1.039	-.692	-.521
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.200	-1.711	-1.839	-.818	-1.087	-.395	-.300
11	-1.010	-1.342	*000.000	-.926	-1.136	-.557	-.454
12	-1.139	-.940	-.795	-.679	-.796	-.428	-.316
13	-1.375	-.928	-.723	-.561	-.681	-.389	-.268
14	-1.725	-.999	-.749	-.669	-.751	-.110	-.345
15	-.861	-1.440	.335	.393	.238	.323	-.014
16	-.724	-.187	.093	.167	.126	.022	-.029
17	-1.539	-1.073	-.883	-.497	-.747	-.325	-.271
18	-2.433	-1.714	-1.239	-1.105	-1.278	-.756	-.466
19	-3.229	-2.231	-1.541	-1.784	-1.955	-1.052	-.660
20	-3.552	-2.378	-1.348	-1.877	-1.885	-1.061	-.712
21	-3.514	-2.229	-1.209	-1.569	-1.723	-1.034	-.790
22	-2.772	-1.699	-.935	-1.082	-1.243	-.862	-.621
23	-1.367	-.605	-.381	-.199	-.350	-.494	-.492
24	-1.099	-.150	-.120	-.138	-.146	-.171	-.158
25	.334	-.304	-1.596	.753	.925	.931	-.503
26	.907	.967	.558	.756	*000.000	.591	-.152
27	.584	.898	.920	.179	.070	-.206	.036
28	.184	.563	.728	.224	.053	-.051	.062
29	-.104	.447	.591	.491	.332	.120	.081
30	.289	.846	.899	.828	.927	.595	.172
31	.394	.884	.926	1.044	1.060	.892	.201
32	.267	.681	.775	.791	.807	.672	.344
33	.118	.421	.586	.594	.542	.339	.030

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.655	-2.387	-3.977	.428	.784	.613	-.988
2	-2.679	-3.487	-4.620	-.061	.051	.167	-.751
3	-2.727	-3.602	-4.921	-.230	-.380	-.210	-.975
4	-2.630	-3.248	-3.917	-.602	-.721	-.362	-.809
5	-2.289	-2.900	-3.240	-.765	-1.060	-.489	-.565
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.306	-1.814	-1.983	-.973	-1.132	-.401	-.325
11	-1.109	-1.392	*000.000	-1.017	-1.033	-.406	-.278
12	-1.155	-1.014	-.882	-.720	-.777	-.378	-.308
13	-1.452	-1.002	-.747	-.611	-.677	-.448	-.434
14	-1.918	-1.114	-.793	-.701	-.727	-.110	-.443
15	-.753	-1.456	.313	.373	.253	.250	-.034
16	-.831	-.231	.069	.091	.145	.007	-.156
17	-1.712	-1.144	-.705	-.566	-.680	-.308	-.342
18	-2.459	-1.699	-1.194	-1.110	-1.138	-.798	-.565
19	-3.431	-2.354	-1.536	-1.819	-1.843	-.902	-.617
20	-3.490	-2.442	-1.371	-1.970	-1.979	-.832	-.633
21	-3.507	-2.240	-1.234	-1.677	-1.786	-.910	-.606
22	-2.809	-1.752	-1.016	-1.233	-1.140	-.613	-.573
23	-1.418	-.667	-.490	-.149	-.365	-.459	-.444
24	-1.323	-.148	-.136	-.127	-.049	-.213	-.236
25	.062	-.423	-1.897	.825	1.064	.834	-.769
26	.947	.891	.613	.869	*000.000	.427	-.290
27	.621	.924	.956	.241	.088	-.148	-.035
28	.217	.553	.746	.171	.035	-.051	.059
29	-.109	.426	.614	.437	.325	.033	.014
30	.304	.892	.939	.894	.985	.415	.044
31	.354	.903	.976	1.068	1.160	.809	.177
32	.225	.672	.813	.834	.848	.598	.150
33	.047	.392	.567	.565	.540	.302	.040

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.268	-2.741	-4.150	.480	.778	.491	-.713
2	-3.102	-3.706	-4.820	-.131	.022	.295	-.608
3	-3.218	-3.848	-4.760	-.518	-.308	.056	-.519
4	-2.991	-3.629	-4.275	-.861	-.776	-.377	-.479
5	-2.453	-3.063	-3.305	-.967	-1.060	-.468	-.461
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.551	-1.925	-1.849	-1.117	-1.178	-.279	-.210
11	-1.171	-1.417	*000.000	-1.018	-.981	-.374	-.220
12	-1.064	-1.011	-.796	-.726	-.865	-.339	-.220
13	-1.572	-.965	-.699	-.597	-.565	-.385	-.375
14	-1.788	-.972	-.736	-.656	-.595	-.055	-.276
15	-.948	-1.348	.291	.333	.296	.221	.038
16	-.794	-.196	.059	.169	.139	.070	-.063
17	-1.541	-1.121	-.850	-.529	-.665	-.316	-.276
18	-2.198	-1.680	-1.222	-1.061	-1.069	-.625	-.388
19	-3.110	-2.281	-1.541	-1.788	-1.993	-.832	-.570
20	-3.200	-2.307	-1.427	-1.972	-1.967	-.702	-.526
21	-3.073	-2.097	-1.245	-1.708	-1.833	-.585	-.549
22	-2.472	-1.519	-1.008	-1.244	-1.136	-.429	-.371
23	-1.483	-.595	-.510	-.355	-.536	-.310	-.337
24	-.992	-.199	-.192	-.070	-.039	-.235	-.109
25	-.462	-.621	-1.994	.888	1.036	.776	-.572
26	.725	.863	.533	.879	*000.000	.498	-.132
27	.595	.909	.944	.285	.091	-.140	.102
28	.177	.539	.697	.274	.032	-.088	.111
29	-.189	.431	.622	.412	.294	.077	.048
30	.225	.843	.897	.829	.934	.541	.184
31	.309	.854	.907	1.001	1.042	.686	.130
32	.207	.655	.725	.863	.776	.655	.299
33	.110	.393	.546	.571	.527	.310	.110

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.511	-2.917	-4.240	.484	.835	.369	-.328
2	-3.445	-3.837	-4.765	-.200	.207	.169	-.124
3	-3.778	-4.051	-4.832	-.478	-.248	.046	-.186
4	-3.202	-3.639	-4.106	-.825	-.577	-.086	-.204
5	-2.660	-3.038	-3.115	-.924	-.813	-.069	-.150
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.504	-1.938	-1.726	-1.061	-.931	-.059	-.112
11	-1.188	-1.467	*000.000	-1.010	-.835	-.213	-.250
12	-1.075	-1.019	-.740	-.679	-.544	-.325	-.250
13	-1.745	-1.047	-.764	-.562	-.467	-.257	-.317
14	-1.693	-1.058	-.781	-.588	-.493	-.028	-.260
15	-.756	-1.261	.307	.379	.302	.191	.064
16	-.774	-.234	.029	.146	.209	.022	-.011
17	-1.637	-1.181	-.887	-.483	-.303	-.165	-.140
18	-1.891	-1.605	-1.240	-1.060	-.928	-.393	-.403
19	-2.826	-1.983	-1.510	-1.560	-1.176	-.579	-.521
20	-3.091	-2.093	-1.450	-1.703	-1.293	-.661	-.611
21	-2.588	-1.808	-1.368	-1.384	-.983	-.464	-.350
22	-2.200	-1.358	-1.088	-1.111	-.890	-.511	-.396
23	-1.245	-.570	-.528	-.325	-.389	-.257	-.192
24	-.824	-.217	-.152	-.045	-.148	-.146	-.166
25	-.477	-.562	-1.993	.999	1.047	.141	-.430
26	.542	.772	.493	.838	*000.000	-.017	-.094
27	.519	.887	.878	.310	.068	-.102	.042
28	.120	.554	.703	.234	.022	.005	.100
29	-.224	.343	.582	.405	.273	.131	.057
30	.137	.833	.841	.834	.845	.445	.101
31	.145	.857	.822	1.045	1.055	.533	.046
32	.149	.669	.663	.869	.762	.675	.056
33	.030	.338	.473	.534	.506	.400	.110

Table 21. - Continued.

(a) $C_{T,S} = 0.90$, $q_S = 20.20$

$\alpha = 65°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-3.427	-3.429	-4.514	.535	.891	.135	-.255
2	-4.076	-4.241	-5.031	-.311	.186	.111	-.270
3	-4.014	-4.338	-4.778	-.266	-.142	.042	-.144
4	-3.471	-3.964	-4.232	-.947	-.612	-.056	-.337
5	-2.751	-3.345	-3.322	-1.141	-.835	-.200	-.211
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.566	-2.050	-1.734	-1.227	-.839	-.122	-.030
11	-1.226	-1.502	*000.000	-.983	-.787	-.209	-.211
12	-1.128	-1.117	-.793	-.706	-.505	-.249	-.183
13	-1.548	-1.010	-.803	-.588	-.391	-.353	-.387
14	-1.634	-1.075	-.813	-.601	-.365	.034	-.311
15	-.821	-1.284	.321	.358	.324	.102	-.086
16	-.608	-.250	-.011	.170	.302	.080	-.129
17	-1.675	-1.251	-.756	-.447	-.327	-.197	-.266
18	-2.186	-1.693	-1.377	-1.011	-.561	-.401	-.389
19	-2.671	-1.938	-1.583	-1.340	-.897	-.426	-.455
20	-2.923	-1.927	-1.495	-1.483	-.955	-.430	-.548
21	-2.375	-1.688	-1.406	-1.213	-.831	-.443	-.485
22	-2.093	-1.360	-1.227	-.801	-.706	-.349	-.546
23	-1.155	-.617	-.472	-.353	-.305	-.316	-.290
24	-.668	-.255	-.230	-.060	-.140	-.208	-.203
25	-1.503	-.906	-2.035	.994	1.076	.038	-.116
26	.455	.700	.494	.828	*000.000	-.096	.001
27	.345	.828	.917	.319	.022	-.176	.029
28	.063	.476	.669	.115	-.029	-.021	.007
29	-.249	.321	.541	.350	.233	.082	.014
30	.117	.808	.834	.876	.863	.234	-.065
31	.180	.865	.803	1.117	1.097	.456	.090
32	.127	.603	.556	.861	.755	.430	.021
33	.077	.285	.449	.501	.462	.239	.019

$\alpha = 70°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-3.903	-3.602	-4.453	.475	.957	.037	-.270
2	-4.385	-4.553	-5.104	-.466	.127	-.170	-.254
3	-4.043	-4.529	-4.788	-.522	0.	-.050	-.328
4	-3.587	-4.245	-4.255	-.910	-.299	-.093	-.392
5	-2.948	-3.588	-3.286	-1.134	-.832	-.169	-.389
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.472	-2.103	-1.695	-1.227	-.713	-.166	-.355
11	-1.168	-1.567	*000.000	-.988	-.647	-.131	-.253
12	-1.043	-1.056	-.755	-.631	-.385	-.102	-.333
13	-1.449	-1.050	-.824	-.544	-.378	-.244	-.354
14	-1.554	-.988	-.745	-.594	-.511	.050	-.345
15	-.716	-1.234	.279	.299	.328	.209	-.269
16	-.614	-.258	.015	.220	.309	.062	-.150
17	-1.228	-1.091	-.683	-.379	-.206	-.149	-.359
18	-1.906	-1.550	-1.245	-.656	-.449	-.355	-.458
19	-2.303	-1.742	-1.527	-1.045	-.750	-.236	-.351
20	-2.498	-1.740	-1.497	-1.312	-.947	-.379	-.648
21	-2.272	-1.639	-1.443	-1.087	-.887	-.379	-.557
22	-1.557	-1.159	-1.107	-.683	-.622	-.281	-.421
23	-.478	-.567	-.349	-.196	-.129	-.220	-.369
24	-.600	-.260	-.177	-.071	-.088	-.200	-.174
25	-1.834	-1.322	-2.125	.992	1.044	.019	-.169
26	.070	.599	.435	.961	*000.000	.039	-.370
27	.202	.794	.835	.306	-.089	-.086	-.001
28	.059	.477	.668	.052	-.044	-.036	-.006
29	-.306	.267	.500	.311	.175	.015	-.113
30	.095	.748	.785	.831	.826	.272	-.083
31	.132	.829	.883	1.107	1.043	.407	.039
32	.091	.597	.544	.795	.717	.426	-.086
33	.047	.268	.455	.485	.446	.205	-.258

$\alpha = 75°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-4.207	-3.754	-4.494	.695	1.082	-.140	-.072
2	-4.561	-4.893	-5.129	-.258	.641	-.191	-.160
3	-4.361	-4.937	-4.884	-.523	.385	-.164	-.094
4	-3.661	-4.399	-4.399	-.885	-.109	-.086	-.191
5	-2.738	-3.557	-3.153	-.925	-.430	-.215	-.025
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.534	-2.227	-1.767	-1.208	-.544	-.200	-.097
11	-1.206	-1.530	*000.000	-.892	-.388	-.175	-.264
12	-1.009	-.941	-.708	-.577	-.360	-.257	-.152
13	-1.544	-.939	-.767	-.516	-.270	-.278	-.071
14	-1.569	-.975	-.793	-.481	-.435	0.	-.118
15	-.914	-1.180	.228	.346	.175	.009	-.019
16	-.682	-.215	.044	.301	.299	-.039	.097
17	-1.378	-1.019	-.649	-.273	-.331	-.112	-.041
18	-1.724	-1.363	-1.167	-.649	-.516	-.361	-.308
19	-2.173	-1.663	-1.530	-1.151	-.799	-.326	-.158
20	-2.014	-1.410	-1.375	-1.157	-.738	-.338	-.265
21	-1.967	-1.305	-1.277	-1.209	-.732	-.341	-.270
22	-1.456	-1.058	-1.058	-.734	-.455	-.245	-.228
23	-.699	-.481	-.474	-.350	-.317	-.217	-.098
24	-.535	-.196	-.164	-.087	-.113	-.217	-.154
25	-2.189	-1.376	-2.074	.850	.955	-.035	-.078
26	-.132	.626	.428	.998	*000.000	-.074	.038
27	.093	.747	.771	.300	-.121	-.060	-.040
28	-.045	.399	.574	-.036	-.121	-.065	-.019
29	-.251	.282	.459	.321	.147	-.046	.112
30	.087	.802	.623	.822	.746	-.018	.010
31	.128	.836	.555	1.127	1.020	.290	.175
32	.002	.537	.459	.813	.661	.251	.042
33	.040	.232	.324	.489	.423	.185	-.030

$\alpha = 80°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-4.402	-4.408	-4.615	.568	1.066	-.078	-.323
2	-4.235	-5.057	-4.813	-.150	.407	-.082	-.255
3	-4.104	-5.261	-4.708	-.245	.407	-.035	-.221
4	-3.489	-4.508	-4.154	-.738	.192	-.221	-.319
5	-2.625	-3.812	-3.212	-1.037	-.424	-.119	-.241
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.474	-2.178	-1.662	-1.128	-.390	-.159	-.299
11	-1.015	-1.332	*000.000	-.808	-.487	-.164	-.417
12	-.961	-.970	-.747	-.512	-.373	-.134	-.224
13	-1.151	-.770	-.633	-.458	-.226	-.166	-.356
14	-1.126	-.820	-.703	-.439	-.333	-.027	-.254
15	-.753	-1.106	.195	.367	.226	.028	-.179
16	-.735	-.135	.018	.249	.199	.034	-.248
17	-1.003	-.831	-.531	-.338	-.343	-.149	-.294
18	-1.449	-1.205	-1.075	-.494	-.539	-.251	-.415
19	-1.789	-1.397	-1.408	-.859	-.926	-.317	-.449
20	-1.627	-1.338	-1.391	-1.195	-.778	-.247	-.417
21	-1.264	-.931	-.856	-.348	-.395	-.224	-.162
22	-1.058	-.961	-.995	-.673	-.665	-.287	-.378
23	-.677	-.507	-.428	-.385	-.370	-.218	-.325
24	-.436	-.154	-.183	-.188	-.185	-.275	-.511
25	-2.733	-1.519	-2.092	.953	.826	-.069	-.172
26	-.397	.497	.352	.923	*000.000	-.081	-.211
27	-.058	.653	.711	.198	-.437	-.052	-.117
28	-.033	.399	.570	-.017	-.212	-.089	-.192
29	-.217	.234	.453	.274	.119	-.119	-.090
30	-.009	.767	.649	.819	.639	.048	-.094
31	.086	.709	.458	1.005	.881	.199	-.127
32	.045	.496	.418	.734	.653	.387	-.304
33	-.038	.143	.256	.398	.370	.194	-.084

Table 21. - Continued.

(b) $C_{T,S} = 0.80$, $q_S = 19.97$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.944	.585	.078	.530	1.134	1.207	.029
2	.198	-.255	-.535	.504	1.005	.873	-.171
3	-.043	-.535	-.591	.770	.879	.699	-.204
4	-.351	-.748	-1.003	.837	.520	.278	-.323
5	-.595	-1.094	-1.149	.292	.082	-.125	-.410
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.564	-.984	-1.271	-.311	-.574	-.316	-.379
11	-.556	-1.036	*000.000	-.634	-.847	-.580	-.486
12	-1.166	-.709	-.918	-.514	-.703	-.459	-.409
13	-.445	-.704	-.733	-.489	-.643	-.431	-.366
14	-.571	-.745	-.766	-.575	-.661	-.173	-.389
15	.144	-.056	.220	.390	.428	.309	.157
16	.262	.055	.104	.163	.122	.146	.069
17	-.358	-.775	-.594	-.243	-.488	-.287	-.254
18	-.852	-1.348	-1.259	-.715	-1.007	-1.111	-.635
19	-1.329	-1.850	-1.843	-1.271	-1.579	-1.440	-.801
20	-1.504	-1.941	-1.802	-1.364	-1.577	-1.504	-.979
21	-1.508	-1.735	-1.548	-1.088	-1.201	-1.322	-.879
22	-1.481	-1.260	-1.042	-.601	-.824	-.973	-.663
23	-1.299	-.384	-.140	-.167	-.134	-.208	-.405
24	-.601	-.034	-.088	-.184	-.113	-.092	-.193
25	1.056	1.116	.676	-.285	.149	.531	.200
26	.618	.993	.818	-.213	*000.000	.020	.332
27	.052	.452	.529	-.485	-.580	-.490	-.014
28	.016	.274	.364	.101	-.167	-.116	-.010
29	.114	.412	.370	.418	.314	.293	.181
30	.600	1.005	.917	.434	.574	.932	.258
31	.908	1.081	.957	.439	1.090	1.141	.574
32	.598	.936	.765	.453	.800	.810	.581
33	.249	.593	.592	.445	.478	.485	.100

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.739	.198	-.432	.543	1.217	1.197	-.065
2	-.621	-.762	-1.221	.617	.946	.771	-.349
3	-.260	-1.002	-1.287	.564	.833	.490	-.440
4	-.617	-1.291	-1.457	.374	.492	.108	-.453
5	-.835	-1.495	-1.578	.228	-.237	-.425	-.592
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.843	-1.172	-1.432	-.408	-.705	-.469	-.428
11	-.600	-1.117	*000.000	-.662	-.888	-.674	-.551
12	-1.212	-.810	-.837	-.572	-.780	-.525	-.472
13	-.573	-.766	-.758	-.479	-.668	-.504	-.405
14	-.674	-.768	-.720	-.562	-.714	-.343	-.391
15	.055	-1.104	.230	.393	.275	.271	.218
16	.094	.024	.103	.148	.062	.140	.090
17	-.473	-.475	-.033	-.315	-.594	-.370	-.277
18	-1.035	-1.427	-1.341	-.813	-1.197	-1.257	-.621
19	-1.538	-1.862	-1.821	-1.274	-1.704	-1.580	-.944
20	-1.752	-1.905	-1.805	-1.387	-1.741	-1.703	-1.008
21	-1.674	-1.631	-1.598	-1.161	-1.409	-1.373	-.907
22	-1.824	-1.326	-1.062	-.700	-.819	-.987	-.747
23	-1.467	-.358	-.192	-.124	-.142	-.208	-.489
24	-.571	-.216	-.113	-.061	-.126	-.229	-.179
25	1.098	1.003	.430	.008	-.398	.836	.250
26	.796	.947	.811	.044	*000.000	.408	.417
27	.134	.580	.682	.008	-.306	-.228	.101
28	.089	.361	.514	.143	-.053	-.011	.033
29	.119	.435	.461	.434	.367	.329	.194
30	.756	1.039	.949	.545	.836	1.050	.236
31	.798	.999	.922	.691	1.151	1.144	.869
32	.532	.783	.750	.640	.825	.789	.668
33	.302	.535	.508	.476	.529	.505	.098

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.479	-.447	-1.442	.239	1.192	1.175	-.155
2	-.394	-1.435	-2.179	.291	.675	.522	-.498
3	-.617	-1.644	-2.154	.155	.383	.243	-.593
4	-.945	-1.843	-2.291	.140	-.053	-.217	-.573
5	-1.037	-1.912	-1.988	-.319	-.505	-.619	-.719
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.763	-1.454	-1.610	-.567	-.885	-.573	-.469
11	-.690	-1.195	*000.000	-.755	-1.034	-.795	-.602
12	-1.378	-.913	-.921	-.667	-.870	-.612	-.435
13	-.682	-.820	-.772	-.550	-.738	-.545	-.388
14	-.654	-.894	-.819	-.620	-.777	-.429	-.359
15	-.069	-1.247	.291	.412	.282	.197	.250
16	-.098	-.007	.104	.116	.074	.083	.122
17	-.750	-.918	-.685	-.335	-.696	-.399	-.205
18	-1.373	-1.535	-1.427	-.985	-1.357	-1.281	-.608
19	-2.005	-2.004	-1.917	-1.480	-1.852	-1.545	-.767
20	-2.258	-1.941	-1.728	-1.515	-1.840	-1.640	-1.000
21	-2.401	-1.930	-1.671	-1.251	-1.622	-1.435	-.879
22	-2.269	-1.452	-1.133	-.866	-.983	-1.134	-.800
23	-1.492	-.400	-.269	-.183	-.207	-.267	-.509
24	-.708	-.220	-.089	-.174	-.234	-.311	-.153
25	1.077	.816	-.136	.210	.574	.796	.062
26	.924	1.084	.726	.156	*000.000	.505	.456
27	.355	.733	.760	.096	-.212	-.207	.174
28	.107	.481	.632	.210	-.018	.003	.098
29	.095	.469	.525	.324	.376	.307	.225
30	.652	1.044	.949	.527	.919	1.124	.247
31	.707	.998	.958	.809	1.138	1.196	.772
32	.494	.796	.820	.761	.875	.803	.735
33	.303	.561	.620	.742	.571	.487	.086

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.162	-1.016	-2.312	.526	1.046	1.056	-.553
2	-.759	-2.046	-3.070	.391	.350	.269	-1.003
3	-1.015	-2.337	-3.094	.152	.033	-.051	-.949
4	-1.331	-2.445	-2.924	-.231	-.456	-.677	-1.088
5	-1.458	-2.184	-2.326	-.404	-.747	-.896	-.962
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.933	-1.546	-1.744	-.699	-1.095	-.759	-.696
11	-.760	-1.258	*000.000	-.833	-1.095	-.829	-.646
12	-1.321	-.927	-.925	-.657	-.861	-.591	-.490
13	-.605	-.896	-.775	-.562	-.750	-.540	-.399
14	-1.078	-.927	-.820	-.645	-.772	-.365	-.418
15	-.284	-1.286	.347	.503	.330	.340	.134
16	-.273	-.074	.058	.248	.096	.128	0.
17	-.975	-1.012	-.741	-.441	-.732	-.362	-.319
18	-1.693	-1.638	-1.370	-1.042	-1.383	-1.238	-.693
19	-2.380	-2.092	-1.711	-1.559	-1.807	-1.476	-.818
20	-2.924	-2.360	-1.777	-1.780	-1.959	-1.774	-1.062
21	-2.991	-2.149	-1.509	-1.471	-1.653	-1.441	-.987
22	-2.718	-1.692	-1.124	-1.116	-1.061	-1.142	-.856
23	-1.676	-.499	-.301	-.236	-.161	-.303	-.640
24	-.894	-.208	-.047	-.084	-.119	-.251	-.188
25	1.105	.533	-.788	.514	.910	1.151	.040
26	1.011	1.047	.677	.536	*000.000	.711	.244
27	.449	.847	.827	.578	.086	-.013	.191
28	.188	.554	.702	.328	.141	.096	.094
29	.079	.518	.589	.435	.476	.405	.242
30	.536	.957	.939	.816	.994	1.034	.294
31	.685	.974	.923	1.017	1.155	1.083	.689
32	.513	.749	.812	.904	.947	.855	.766
33	.275	.529	.507	.592	.590	.470	.083

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.207	-1.907	-3.658	.410	.781	.872	-1.163
2	-1.209	-2.928	-4.178	-.249	-.038	-.090	-1.288
3	-1.429	-2.972	-4.042	-.172	-.422	-.419	-1.328
4	-1.725	-2.915	-3.595	-.521	-.747	-.864	-1.312
5	-1.953	-2.515	-2.933	-.568	-1.102	-1.196	-1.140
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.028	-1.712	-1.912	-.881	-1.288	-.912	-.855
11	-.841	-1.368	*000.000	-.940	-1.234	-.989	-.743
12	-1.286	-.937	-.877	-.667	-.893	-.628	-.511
13	-1.020	-.949	-.825	-.625	-.786	-.516	-.384
14	-1.117	-.971	-.824	-.734	-.858	-.311	-.454
15	-.434	-1.236	.333	.459	.344	.368	.178
16	-.409	-.104	.046	.153	.095	.129	.079
17	-1.210	-1.050	-.759	-.428	-.776	-.404	-.318
18	-1.980	-1.691	-1.364	-1.137	-1.526	-1.260	-.719
19	-2.882	-2.215	-1.803	-1.759	-2.009	-1.561	-.843
20	-3.430	-2.400	-1.985	-2.008	-2.075	-1.792	-1.090
21	-3.337	-2.158	-1.267	-1.581	-1.881	-1.372	-.874
22	-3.053	-1.672	-.866	-1.163	-1.104	-1.082	-.750
23	-1.744	-.585	-.314	-.259	-.233	-.342	-.592
24	-1.057	-.188	-.016	-.163	-.216	-.157	-.120
25	.744	.107	-1.495	.784	1.034	1.233	-.412
26	1.124	1.053	.605	.756	*000.000	.843	.180
27	.604	1.027	.992	.856	.320	.078	.103
28	.232	.630	.732	.393	.227	.124	.177
29	.039	.449	.548	.517	.462	.381	.253
30	.440	.962	.931	.917	1.081	.986	.183
31	.598	.984	.965	1.151	1.192	1.166	.589
32	.417	.784	.830	.911	.937	.810	.734
33	.257	.537	.612	.594	.620	.496	.122

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.673	-2.512	-4.331	.070	.488	.777	-1.358
2	-1.686	-3.607	-5.196	-.550	-.511	-.358	-1.737
3	-1.790	-3.613	-4.932	-.728	-.918	-.707	-1.552
4	-1.892	-3.319	-4.206	-.871	-1.184	-1.030	-1.341
5	-1.772	-2.927	-3.375	-.922	-1.487	-1.384	-1.328
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.165	-1.902	-2.113	-1.137	-1.506	-.887	-.660
11	-.916	-1.400	*000.000	-1.043	-1.311	-.855	-.596
12	-1.329	-1.042	-.858	-.785	-1.057	-.590	-.492
13	-1.197	-.965	-.774	-.651	-.841	-.539	-.446
14	-1.515	-1.001	-.771	-.696	-.849	-.234	-.353
15	-.585	-1.249	.339	.475	.316	.440	.099
16	-.624	-.159	.071	.222	.093	.156	.029
17	-1.458	-1.133	-.755	-.552	-.863	-.369	-.298
18	-2.281	-1.825	-1.381	-1.270	-1.528	-1.137	-.661
19	-3.184	-2.295	-1.564	-1.877	-2.139	-1.615	-.914
20	-3.819	-2.461	-1.474	-2.051	-2.180	-1.718	-1.110
21	-3.942	-2.425	-1.336	-1.839	-2.055	-1.549	-1.035
22	-3.292	-1.747	-.896	-1.225	-1.198	-1.149	-.803
23	-1.774	-.619	-.367	-.287	-.261	-.428	-.606
24	-1.127	-.116	-.082	-.191	-.214	-.137	-.146
25	.743	-.441	-2.004	.734	1.129	1.264	-.642
26	1.080	.948	.565	.986	*000.000	.870	.027
27	.670	1.014	.985	.538	.433	.189	.190
28	.246	.663	.790	.536	.254	.129	.151
29	.018	.532	.668	.582	.474	.365	.227
30	.359	.957	1.019	1.040	1.051	.889	.294
31	.467	.985	1.026	1.213	1.222	1.197	.501
32	.350	.753	.893	.939	.922	.825	.655
33	.194	.502	.659	.646	.604	.509	.156

Table 21. - Continued.

(b) $C_{T,S} = 0.80$, $q_s = 19.97$

$\alpha = 35°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-1.122	-3.379	-5.258	-.023	.379	.634	-1.504
2	-2.249	-4.367	-5.879	-.848	-.014	-.364	-1.460
3	-2.491	-4.541	-5.921	-1.960	-1.157	-.677	-1.531
4	-2.426	-4.055	-5.005	-1.361	-1.494	-1.075	-1.389
5	-2.133	-3.285	-3.743	-1.288	-1.683	-1.202	-1.154
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.377	-2.067	-2.241	-1.515	-1.636	-.790	-.549
11	-1.097	-1.506	*000.000	-1.227	-1.368	-.695	-.495
12	-1.259	-1.049	-.901	-.691	-.792	-.539	-.440
13	-1.349	-1.013	-.806	-.731	-.867	-.511	-.488
14	-1.740	-1.066	-.801	-.867	-.871	-.182	-.489
15	-.717	-1.243	.393	.450	.338	.434	.021
16	-.774	-.146	.048	.189	.084	.178	.047
17	-1.518	-1.090	-.719	-.588	-.865	-.363	-.307
18	-2.357	-1.741	-1.362	-1.304	-1.511	-1.190	-.671
19	-3.352	-2.270	-1.576	-1.998	-2.118	-1.626	-.940
20	-3.727	-2.418	-1.430	-2.131	-2.204	-1.514	-1.010
21	-3.938	-2.276	-1.697	-1.982	-2.102	-1.476	-1.067
22	-3.206	-1.749	-.941	-1.466	-1.433	-1.346	-.944
23	-1.725	-.989	-.498	-.291	-.332	-.555	-.688
24	-1.341	-.114	-.124	-.122	-.148	-.110	-.296
25	.545	-.904	-2.317	.790	1.170	1.207	-.639
26	1.071	.988	.491	.779	*000.000	.992	.032
27	.728	1.057	1.022	.694	.514	.257	.261
28	.284	.726	.871	.431	.306	.143	.020
29	-.014	.550	.884	.561	.404	.296	.144
30	.293	.997	.997	1.035	1.098	.801	.128
31	.467	1.044	1.105	1.263	1.288	1.229	.451
32	.390	.804	.836	.916	.938	.799	.500
33	.216	.521	.644	.660	.826	.479	.077

$\alpha = 40°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-1.718	-4.144	-6.157	-1.484	.136	.648	-1.521
2	-2.796	-5.083	-6.841	-1.372	-.947	-.539	-1.523
3	-2.884	-4.944	-6.319	-1.534	-1.413	-.693	-1.288
4	-2.912	-4.593	-5.349	-1.678	-1.715	-1.182	-1.374
5	-2.403	-3.594	-4.104	-1.677	-1.861	-1.292	-1.005
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.579	-2.215	-2.333	-1.657	-1.648	-.715	-.535
11	-1.248	-1.554	*000.000	-1.285	-1.390	-.674	-.521
12	-1.279	-1.091	-.907	-.925	-.947	-.557	-.521
13	-1.667	-1.109	-.805	-.799	-.908	-.526	-.484
14	-2.015	-1.145	-.920	-.900	-.935	-.195	-.389
15	-.798	-1.287	.389	.497	.312	.385	-.010
16	-.847	-.161	.068	.173	.097	.094	-.102
17	-1.773	-1.175	-.804	-.648	-.852	-.398	-.463
18	-2.689	-1.970	-1.426	-1.414	-1.460	-1.142	-.879
19	-3.557	-2.339	-1.653	-2.122	-2.042	-1.327	-.904
20	-4.041	-2.474	-1.590	-2.291	-2.147	-1.647	-1.131
21	-3.890	-2.612	-1.466	-2.036	-2.100	-1.564	-1.109
22	-3.162	-1.934	-1.110	-1.396	-1.442	-1.213	-.801
23	-1.782	-.831	-.564	-.321	-.475	-.622	-.711
24	-1.519	-.181	-.203	-.189	-.189	-.196	-.259
25	.185	-1.352	-2.677	.864	1.182	1.074	-.911
26	1.028	.785	.343	.849	*000.000	.996	-.090
27	.731	1.025	.948	.670	.587	.165	-.140
28	.247	.721	.886	.489	.301	.132	.142
29	-.096	.542	.702	.545	.455	.275	.139
30	.148	.955	1.001	1.071	1.133	.785	.101
31	.346	1.028	1.008	1.191	1.277	1.089	.316
32	.285	.824	.854	.993	.975	.862	.379
33	.135	.478	.587	.642	.582	.401	.005

$\alpha = 45°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-2.301	-4.742	-6.449	-1.848	-.084	.391	-1.358
2	-3.478	-5.801	-6.942	-1.544	-1.103	-.591	-1.023
3	-3.548	-5.483	-6.825	-1.722	-1.441	-.998	-.859
4	-3.387	-5.009	-5.746	-2.042	-1.970	-1.320	-.859
5	-2.811	-4.062	-4.340	-2.021	-1.970	-1.223	-.810
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.694	-2.434	-2.176	-1.703	-1.584	-.572	-.301
11	-1.389	-1.860	*000.000	-1.395	-1.371	-.641	-.266
12	-1.412	-1.107	-.867	-.962	-.842	-.476	-.104
13	-1.768	-1.146	-.896	-.773	-.896	-.481	-.089
14	-2.126	-1.156	-.847	-.869	-.745	-.141	-.255
15	-.938	-1.283	.356	.471	.360	.326	.121
16	-.893	-.204	.037	.128	.224	.024	.066
17	-1.943	-1.257	-.801	-.692	-.719	-.316	-.110
18	-2.847	-1.941	-1.475	-1.509	-1.406	-1.066	-.708
19	-3.389	-2.331	-1.770	-2.112	-1.922	-1.265	-.757
20	-3.496	-2.362	-1.751	-2.447	-2.221	-1.397	-.767
21	-3.041	-2.222	-1.547	-2.061	-1.819	-1.302	-.706
22	-2.942	-1.598	-1.209	-1.525	-1.284	-1.055	-.654
23	-1.646	-.660	-.624	-.402	-.595	-.601	-.283
24	-1.208	-.253	-.272	-.044	-.062	-.231	-.034
25	-.203	-1.824	-3.532	.756	1.177	.968	-1.005
26	.992	.712	.294	.781	*000.000	.958	-.110
27	.738	1.062	.980	.708	.812	.250	.150
28	.250	.749	.881	.410	.305	.195	.148
29	-.138	.534	.712	.566	.478	.277	.449
30	.103	.940	1.052	1.089	1.081	.706	.368
31	.249	1.033	.993	1.219	1.266	1.012	.674
32	.235	.745	.744	.899	.920	.688	.380
33	.108	.484	.507	.646	.602	.401	.311

$\alpha = 50°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-3.118	-5.240	-6.749	-1.736	-.078	.252	-.992
2	-4.108	-5.950	-7.132	-1.776	-1.255	-.464	-1.024
3	-4.165	-6.223	-7.127	-2.124	-1.736	-.807	-1.039
4	-3.968	-5.674	-5.595	-2.109	-1.779	-1.042	-.878
5	-2.867	-3.965	-4.159	-2.000	-1.885	-1.031	-.572
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.878	-2.486	-2.349	-1.918	-1.851	-.538	-.323
11	-1.347	-1.621	*000.000	-1.373	-1.444	-.391	-.283
12	-1.265	-1.143	-.905	-.967	-.774	-.308	-.135
13	-1.789	-1.141	-.936	-.828	-.731	-.393	-.423
14	-2.192	-1.263	-.997	-.886	-.837	-.089	-.419
15	-.890	-1.295	.391	.476	.378	.412	-.080
16	-.913	-.278	.029	.149	.212	.146	-.209
17	-1.944	-1.275	-.812	-.671	-.829	-.235	-.371
18	-2.850	-1.944	-1.045	-1.533	-1.231	-.955	-.688
19	-3.107	-2.379	-1.923	-2.157	-1.692	-.943	-.900
20	-3.055	-2.305	-1.738	-2.268	-1.394	-.960	-.928
21	-2.943	-1.981	-1.531	-1.910	-1.841	-.665	-.678
22	-2.957	-1.510	-1.300	-1.572	-1.208	-.881	-1.080
23	-1.559	-.733	-.595	-.402	-.503	-.454	-.661
24	-1.062	-.295	-.267	-.023	-.067	-.223	-.272
25	-.938	-2.104	-3.635	.781	1.158	1.023	-1.049
26	.985	.721	.306	1.267	*000.000	.877	-.211
27	.731	1.134	1.047	.881	.655	.367	.040
28	.257	.780	.927	.467	.308	.194	.148
29	-.139	.512	.719	.541	.416	.231	.072
30	.177	.961	.993	1.046	1.043	.658	-.067
31	.349	1.023	.909	1.196	1.181	1.051	.201
32	.172	.735	.695	.893	.852	.719	.135
33	.131	.417	.534	.624	.543	.336	.000

$\alpha = 55°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-4.132	-5.821	-6.964	-.918	-.294	.076	-1.074
2	-4.865	-6.532	-7.121	-1.867	-1.329	-.693	-.776
3	-4.723	-6.441	-6.781	-2.244	-1.834	-.955	-.910
4	-4.074	-5.381	-5.653	-2.288	-1.710	-.749	-.629
5	-3.367	-4.505	-4.433	-2.299	-2.029	-1.008	-.663
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.844	-2.498	-2.090	-1.754	-1.424	-.332	-.171
11	-1.474	-1.774	*000.000	-1.457	-1.325	-.452	-.240
12	-1.274	-1.202	-.885	-.959	-.674	-.302	-.235
13	-1.730	-1.107	-.840	-.748	-.558	-.332	-.353
14	-2.030	-1.161	-.931	-.837	-.544	0.	-.333
15	-.868	-1.186	.353	.482	.378	.332	-.040
16	-.829	-.259	.013	.162	.261	.121	-.058
17	-1.804	-1.312	-.832	-.681	-.920	-.294	-.280
18	-2.689	-1.991	-1.621	-1.405	-1.090	-.639	-.562
19	-3.135	-2.234	-1.948	-2.020	-1.367	-.879	-.690
20	-3.244	-2.051	-1.694	-1.989	-1.331	-.760	-.538
21	-2.956	-1.944	-1.608	-1.838	-1.317	-.665	-.553
22	-2.241	-1.447	-1.308	-1.376	-.976	-.676	-.525
23	-1.503	-.770	-.435	-.444	-.493	-.477	-.514
24	-.924	-.245	-.278	-.114	-.085	-.242	-.210
25	-1.468	-2.336	-3.822	.769	1.134	.721	-.828
26	.950	.639	.264	1.161	*000.000	.703	-.145
27	.659	1.061	.986	.860	.673	.180	-.038
28	.213	.737	.883	.420	.292	.137	.181
29	-.231	.492	.694	.505	.392	.193	.155
30	.193	1.104	.998	1.073	1.061	.671	.049
31	.285	1.050	.778	1.220	1.222	1.043	.083
32	.192	.737	.637	.884	.857	.702	.274
33	.131	.408	.514	.655	.573	.374	.054

$\alpha = 60°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-4.884	-6.031	-6.730	-1.041	-.221	-.178	-.606
2	-5.512	-7.102	-7.327	-2.024	-1.362	-.668	-.548
3	-5.378	-7.019	-7.172	-2.364	-1.800	-.683	-.604
4	-4.933	-5.882	-5.718	-2.373	-1.830	-.792	-.545
5	-3.394	-4.350	-4.349	-2.284	-1.927	-.911	-.339
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.634	-2.230	-2.143	-1.892	-1.404	-.254	-.171
11	-1.425	-1.647	*000.000	-1.435	-1.167	-.364	-.271
12	-1.338	-1.240	-.939	-.985	-.590	-.252	-.217
13	-1.797	-1.211	-.985	-.800	-.496	-.253	-.297
14	-1.844	-1.155	-.940	-.805	-.485	.089	-.310
15	-.912	-1.212	.338	.492	.373	.288	-.010
16	-.904	-.308	-.052	.221	.208	.178	-.038
17	-1.847	-1.259	-.811	-.642	-.400	-.171	-.156
18	-2.736	-1.863	-1.502	-1.299	-.821	-.600	-.430
19	-3.480	-2.032	-1.744	-1.626	-1.132	-.495	-.375
20	-3.661	-2.055	-1.740	-1.796	-1.167	-.774	-.632
21	-3.034	-1.799	-1.628	-1.805	-1.178	-.712	-.537
22	-1.837	-1.373	-1.278	-1.414	-1.201	-.534	-.506
23	-1.106	-.691	-.372	-.412	-.448	-.407	-.435
24	-.793	-.393	-.341	-.045	-.097	-.149	-.220
25	-2.457	-2.942	-3.710	.521	1.083	.230	-.815
26	.078	.442	.320	1.119	*000.000	.552	-.001
27	.243	.942	.963	.804	.586	.146	.117
28	.010	.548	.836	.380	.247	.065	.080
29	-.240	.379	.849	.496	.376	.200	.184
30	.070	.936	.803	.935	.905	.623	.015
31	.144	.972	.884	1.080	1.143	.984	.126
32	.083	.664	.385	.892	.747	.601	.108
33	.065	.280	.458	.600	.408	.327	.061

Table 21. - Continued.

(b) $C_{T,S} = 0.80$, $q_s = 19.97$

$\alpha = 65°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-5.257	-6.512	-6.519	-1.101	-.338	.030	-.415
2	-5.500	-7.449	-7.077	-2.057	-1.152	-.296	-.388
3	-5.099	-7.320	-6.863	-2.465	-1.702	-.700	-.497
4	-4.297	-5.121	-5.619	-2.498	-1.777	-.425	-.315
5	-3.069	-4.815	-4.197	-2.272	-1.871	-.468	-.384
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.584	-2.479	-2.051	-1.841	-1.355	-.282	-.186
11	-1.295	-1.811	*000.000	-1.466	-1.076	-.342	-.206
12	-1.222	-1.142	-.897	-.919	-.576	-.263	-.186
13	-1.571	-1.065	-.910	-.711	-.477	-.210	-.223
14	-1.596	-1.065	-.905	-.757	-.377	.101	-.312
15	-.844	-1.059	.355	.375	.348	.269	-.083
16	-.661	-.227	-.032	.079	.278	.155	-.084
17	-1.358	-1.238	-.818	-.616	-.462	-.217	-.288
18	-2.117	-1.751	-1.432	-1.358	-.903	-.635	-.518
19	-2.061	-1.923	-1.800	-1.851	-1.409	-.795	-.684
20	-1.939	-1.702	-1.687	-1.614	-.904	-.482	-.409
21	-1.785	-1.553	-1.493	-1.563	-.886	-.460	-.284
22	-1.560	-1.231	-1.240	-1.211	-.844	-.528	-.563
23	-.903	-.517	-.400	-.401	-.455	-.437	-.504
24	-.688	-.327	-.316	-.136	-.160	-.202	-.205
25	-3.309	-3.179	-3.553	.479	1.039	.395	-.582
26	-.390	.348	.247	1.122	*000.000	.398	-.122
27	-.078	.769	.907	.758	.577	.105	.049
28	-.060	.547	.815	.346	.230	.061	.124
29	-.233	.307	.539	.397	.331	.169	.092
30	.093	.916	.664	.952	.905	.598	-.026
31	.167	.937	.673	1.022	1.038	.821	.038
32	.123	.559	.594	.837	.791	.590	.169
33	.049	.222	.455	.544	.506	.301	.001

$\alpha = 70°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-5.401	-6.806	-6.315	-.863	-.051	.348	-.189
2	-5.010	-7.787	-7.000	-2.178	-.994	.108	-.223
3	-4.632	-7.621	-6.981	-2.329	-1.378	.088	-.125
4	-3.802	-6.180	-5.450	-2.321	-1.437	-.106	-.114
5	-2.575	-4.932	-4.481	-2.442	-2.006	-.513	-.360
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.621	-2.573	-2.033	-1.772	-1.179	-.301	-.196
11	-1.117	-1.637	*000.000	-1.301	-.861	-.222	-.177
12	-1.224	-1.087	-.943	-.869	-.548	-.240	-.266
13	-1.443	-1.052	-.890	-.672	-.425	-.225	-.221
14	-1.310	-1.022	-.887	-.663	-.462	.080	-.221
15	-.819	-1.003	.370	.531	.365	.280	.028
16	-.574	-.221	-.025	.174	.183	.121	-.043
17	-1.087	-1.041	-.800	-.630	-.469	-.186	-.360
18	-1.467	-1.414	-1.257	-.946	-.894	-.552	-.446
19	-1.559	-1.703	-1.681	-1.455	-1.019	-.677	-.624
20	-1.693	-1.628	-1.684	-1.679	-.810	-.473	-.518
21	-1.095	-1.228	-1.489	-.863	-.660	-.517	-.587
22	-1.161	-1.095	-1.211	-.972	-.707	-.506	-.553
23	-.776	-.405	-.406	-.493	-.490	-.313	-.294
24	-.501	-.363	-.267	-.061	-.167	-.148	-.129
25	-4.019	-3.726	-3.418	.701	1.068	.172	-.067
26	-.895	-.151	.332	1.119	*000.000	.269	-.088
27	-.251	.542	.887	.753	.507	.087	.162
28	-.117	.342	.782	.383	.248	.156	.194
29	-.160	.228	.446	.393	.284	.097	.111
30	.121	.921	.643	1.056	.936	.724	-.013
31	.140	.807	.569	1.110	1.056	.919	.079
32	.046	.435	.494	.808	.722	.604	.138
33	.050	.125	.376	.522	.407	.302	.058

$\alpha = 75°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-3.465	-4.267	-4.897	-.575	.592	-.008	-.244
2	-4.730	-7.795	-7.026	-2.014	-.765	-.077	-.179
3	-3.291	-6.197	-6.040	-2.001	-.701	-.107	-.107
4	-1.147	-1.888	-2.987	-2.313	-1.241	-.320	-.238
5	-1.484	-1.629	-2.250	-1.822	-.987	-.122	-.095
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.542	-1.918	-1.909	-1.804	-.901	-.187	-.235
11	-.992	-1.438	*000.000	-1.225	-.589	-.173	-.193
12	-1.121	-1.016	-.849	-.706	-.358	-.168	-.278
13	-.987	-.785	-.802	-.660	-.285	-.154	-.322
14	-1.053	-.799	-.800	-.580	-.328	.064	-.323
15	-.532	-.928	.227	.441	.370	.220	.005
16	-.474	-.164	-.076	.166	.244	.135	-.074
17	-.661	-.740	-.698	-.424	-.257	-.196	-.278
18	-1.113	-1.131	-1.246	-1.025	-.879	-.614	-.516
19	-1.039	-1.228	-1.534	-1.129	-.867	-.460	-.521
20	-1.082	-1.270	-1.637	-1.295	-1.060	-.566	-.636
21	-.830	-.921	-1.374	-1.262	-1.079	-.572	-.623
22	-.884	-.876	-1.169	-.794	-.823	-.320	-.287
23	-.592	-.425	-.498	-.420	-.380	-.289	-.235
24	-.462	-.290	-.185	-.234	-.244	-.270	-.230
25	-3.896	-3.815	-3.210	.673	1.039	-.047	-.182
26	-.881	-.114	.260	1.077	*000.000	.140	.016
27	-.416	.308	.901	.664	.387	-.052	-.049
28	-.068	.309	.720	.299	.191	.016	.044
29	-.143	.248	.389	.327	.248	.115	.047
30	.216	.741	.559	.856	.823	.568	.081
31	.218	.776	.616	1.112	1.050	.798	.176
32	.129	.478	.537	.766	.730	.598	.195
33	.024	.159	.328	.449	.423	.273	.037

$\alpha = 80°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-1.391	-2.424	-3.394	-.921	.010	-.071	-.175
2	-.750	-1.772	-2.953	-1.730	-.661	-.276	-.189
3	-.675	-1.323	-2.542	-1.788	-.714	-.206	-.136
4	-.831	-.937	-1.641	-2.066	-1.072	-.208	-.214
5	-.881	-.769	-1.024	-1.903	-1.091	-.224	-.229
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.729	-.718	-.744	-1.429	-.684	-.095	-.134
11	-.717	-.739	*000.000	-1.116	-.612	-.134	-.278
12	-.804	-.719	-.730	-.727	-.396	-.183	-.258
13	-.589	-.486	-.549	-.539	-.367	-.141	-.313
14	-.578	-.493	-.506	-.521	-.335	.059	-.306
15	-.430	-.968	.158	.377	.374	.343	-.051
16	-.265	-.086	-.007	.158	.190	.118	-.012
17	-.529	-.587	-.426	-.432	-.457	-.196	-.254
18	-.744	-.732	-.833	-.762	-.551	-.436	-.400
19	-.932	-.864	-1.248	-.930	-.963	-.402	-.546
20	-.855	-.642	-.838	-.900	-.750	-.501	-.474
21	-.706	-.673	-.966	-1.073	-.952	-.446	-.374
22	-.605	-.641	-.713	-.928	-.752	-.549	-.502
23	-.487	-.551	-.504	-.387	-.438	-.313	-.326
24	-.443	-.367	-.302	-.183	-.128	-.193	-.305
25	-1.767	-1.543	-1.685	.678	1.083	-.187	-.123
26	-.344	.034	.543	.785	*000.000	-.084	-.175
27	-.176	.227	.932	.580	.152	-.054	.014
28	.009	.278	.622	.274	.125	-.083	-.022
29	-.021	.234	.349	.356	.279	.165	.148
30	.170	.680	.498	.784	.783	.530	.048
31	.199	.659	.561	1.084	1.063	.818	.094
32	.133	.408	.451	.699	.650	.601	.125
33	.087	.149	.290	.428	.296	.241	.008

Table 21. - Continued.

(c) $C_{T,s} = 0.60$, $q_s = 21.94$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.862	.554	-.004	.015	1.185	1.148	.485
2	.223	-.242	-.588	.523	.824	.685	.081
3	-.108	-.692	-.833	.482	.510	.422	-.211
4	-.460	-.947	-1.056	-.103	.042	-.155	-.457
5	-.703	-1.234	-1.248	-.414	-.448	-.496	-.610
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.753	-1.222	-1.460	-.974	-.985	-.704	-.894
11	-.755	-1.160	*000.000	-.953	-1.071	-.892	-.823
12	-1.250	-.902	-.907	-.810	-.919	-.721	-.657
13	-.665	-.878	-.840	-.634	-.810	-.659	-.594
14	-.766	-.855	-.801	-.671	-.805	-.085	-.575
15	.023	-.589	.116	.245	.289	.263	.039
16	.073	-.016	.044	.005	.093	.106	.036
17	-.554	-.962	-.705	-.445	-.673	-.487	-.383
18	-1.121	-1.552	-1.379	-1.049	-1.385	-1.357	-.973
19	-1.761	-2.090	-1.932	-1.514	-1.927	-1.731	-1.196
20	-1.885	-1.994	-1.725	-1.557	-1.755	-1.834	-1.273
21	-2.065	-1.929	-1.811	-1.184	-1.570	-1.483	-1.065
22	-2.045	-1.499	-1.113	-.674	-.805	-1.004	-.873
23	-1.436	-.996	-.228	-.155	-.186	-.346	-.511
24	-.764	-.182	-.084	-.155	-.152	-.178	-.259
25	1.082	1.157	.535	.318	.769	.873	.546
26	.613	.997	.692	.394	*000.000	.446	.477
27	.008	.324	.352	.147	-.225	-.148	-.031
28	-.022	.195	.303	.028	-.055	-.020	.044
29	.092	.372	.304	.310	.373	.364	.289
30	.796	1.105	.918	.484	.639	1.008	.311
31	.853	1.097	.890	.697	1.200	1.177	1.013
32	.507	.777	.607	.589	.801	.764	.788
33	.273	.580	.477	.374	.495	.498	.126

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.520	-.055	-.899	.001	1.059	.945	.239
2	-.333	-1.213	-1.699	-.322	.288	.171	-.446
3	-.575	-1.481	-1.802	-.393	-.008	-.177	-.701
4	-.825	-1.635	-1.818	-.642	-.491	-.710	-.952
5	-1.041	-1.839	-1.802	-.886	-.924	-1.078	-1.125
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.015	-1.553	-1.734	-1.261	-1.369	-1.005	-1.254
11	-.869	-1.327	*000.000	-1.124	-1.303	-1.114	-.962
12	-1.404	-.999	-.968	-.904	-1.035	-.836	-.724
13	-.808	-.914	-.821	-.675	-.859	-.720	-.597
14	-.978	-.939	-.830	-.754	-.928	-.189	-.592
15	-.100	-.688	.184	.261	.302	.278	.095
16	-.119	-.020	.067	.095	.044	.065	-.045
17	-.828	-1.016	-.717	-.527	-.888	-.596	-.484
18	-1.479	-1.684	-1.414	-1.148	-1.494	-1.431	-.929
19	-2.149	-2.133	-1.854	-1.818	-2.048	-1.783	-1.179
20	-2.549	-2.244	-1.898	-1.880	-2.045	-1.939	-1.421
21	-2.542	-1.851	-1.494	-1.492	-1.671	-1.594	-1.148
22	-2.352	-1.330	-1.052	-.981	-1.058	-1.169	-.983
23	-1.651	-.307	-.265	-.174	-.225	-.368	-.547
24	-.969	-.224	-.087	-.133	-.226	-.350	-.330
25	1.045	.975	-.007	.484	.959	1.130	.828
26	.753	.994	.554	.304	*000.000	.753	.767
27	.247	.638	.587	.283	.058	.134	.218
28	.103	.381	.519	.282	.119	.131	.106
29	.086	.398	.429	.392	.412	.388	.314
30	.622	1.040	.932	.658	1.004	1.043	.378
31	.766	1.070	.898	1.005	1.243	1.233	.878
32	.507	.823	.691	.813	.945	.865	.867
33	.281	.594	.506	.562	.619	.551	.140

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.057	-.932	-2.092	-.191	.649	.551	-.370
2	-1.032	-2.367	-3.100	-1.048	-.338	-.582	-1.311
3	-1.115	-2.296	-2.732	-.871	-.709	-.790	-1.319
4	-1.473	-2.707	-3.068	-1.246	-1.193	-1.431	-1.665
5	-1.496	-2.610	-2.737	-1.307	-1.562	-1.634	-1.664
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.138	-1.799	-2.012	-1.434	-1.676	-1.252	-1.537
11	-.953	-1.439	*000.000	-1.225	-1.469	-1.249	-1.110
12	-1.414	-.979	-.947	-.889	-1.069	-.886	-.762
13	-.899	-.984	-.871	-.722	-.920	-.801	-.693
14	-1.243	-1.026	-.864	-.780	-.978	-.236	-.651
15	-.249	-.728	.219	.415	.339	.311	.040
16	-.301	-.058	.038	.153	.037	.037	-.051
17	-1.010	-1.031	-.742	-.538	-.869	-.620	-.501
18	-1.698	-1.657	-1.412	-1.153	-1.555	-1.588	-1.072
19	-2.573	-2.310	-1.980	-1.785	-2.200	-1.952	-1.271
20	-3.190	-2.494	-1.986	-2.063	-2.205	-2.049	-1.697
21	-3.284	-2.265	-1.669	-1.684	-1.859	-1.677	-1.260
22	-2.925	-1.697	-1.206	-1.147	-1.177	-1.179	-1.016
23	-1.669	-.348	-.367	-.297	-.224	-.287	-.655
24	-1.228	-.304	-.034	-.131	-.315	-.233	-.290
25	1.008	.607	-.841	.483	1.191	1.307	.748
26	.993	1.087	.558	.632	*000.000	1.075	.847
27	.449	.851	.752	.505	.345	.380	.297
28	.197	.523	.630	.516	.265	.230	.202
29	.095	.514	.549	.461	.523	.465	.367
30	.502	.985	.889	.938	1.062	1.108	.179
31	.624	1.023	.834	1.128	1.228	1.223	.826
32	.473	.798	.663	.909	.969	.895	.813
33	.265	.559	.603	.602	.607	.517	.168

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.510	-2.330	-4.132	-1.039	-.080	-.057	-1.303
2	-1.697	-3.592	-4.853	-1.733	-1.272	-1.451	-2.187
3	-1.745	-3.357	-4.250	-1.649	-1.514	-1.592	-2.194
4	-1.918	-3.369	-3.950	-1.648	-1.780	-1.946	-2.159
5	-1.478	-3.017	-3.301	-1.692	-2.118	-2.135	-2.168
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.365	-2.097	-2.323	-1.786	-1.949	-1.499	-1.819
11	-1.088	-1.583	*000.000	-1.405	-1.663	-1.425	-1.186
12	-1.515	-1.098	-1.020	-.960	-1.230	-1.018	-.875
13	-1.229	-1.184	-.971	-.848	-1.097	-.940	-.789
14	-1.590	-1.172	-.925	-.923	-1.060	-.289	-.715
15	-.539	-.825	.301	.485	.335	.317	.058
16	-.628	-.157	-.001	.225	.057	.006	-.071
17	-1.480	-1.260	-.866	-.619	-1.037	-.729	-.597
18	-2.225	-1.902	-1.501	-1.319	-1.738	-1.731	-1.129
19	-3.251	-2.480	-1.866	-1.908	-2.293	-1.967	-1.272
20	-3.640	-2.555	-1.796	-1.993	-2.196	-2.069	-1.525
21	-3.860	-2.449	-1.547	-1.837	-2.039	-1.702	-1.359
22	-3.370	-1.853	-1.131	-1.269	-1.242	-1.302	-1.119
23	-1.719	-.570	-.298	-.288	-.271	-.266	-.719
24	-1.445	-.309	-.021	-.216	-.286	-.215	-.311
25	.738	-.143	-1.849	.369	1.119	1.181	.333
26	.969	.986	.460	.923	*000.000	1.135	.625
27	.550	.913	.802	.844	.605	.524	.389
28	.305	.681	.766	.556	.421	.330	.257
29	.068	.559	.652	.610	.577	.487	.333
30	.351	1.008	.972	1.101	1.135	1.141	.119
31	.532	1.000	.924	1.178	1.257	1.231	.675
32	.372	.774	.712	.963	.926	.819	.753
33	.221	.555	.517	.664	.652	.507	.044

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.130	-3.657	-5.617	-1.645	-.774	-.393	-2.173
2	-2.225	-4.569	-5.900	-2.374	-2.031	-2.022	-2.740
3	-2.361	-4.474	-5.577	-2.421	-2.367	-2.222	-2.809
4	-2.473	-4.182	-5.020	-2.659	-2.805	-2.759	-2.958
5	-2.214	-3.626	-4.095	-2.396	-2.759	-2.565	-2.422
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.541	-2.351	-2.658	-2.128	-2.293	-1.740	-2.113
11	-1.234	-1.747	*000.000	-1.646	-1.930	-1.478	-1.216
12	-1.664	-1.238	-1.110	-1.095	-1.328	-1.014	-.821
13	-1.356	-1.178	-.949	-.823	-1.094	-.816	-.713
14	-1.985	-1.283	-.992	-.939	-1.157	-.263	-.688
15	-.730	-.898	-.345	.494	.343	.450	.161
16	-.875	-.216	-.001	.226	.005	.023	-.054
17	-1.904	-1.368	-.927	-.692	-1.141	-.687	-.520
18	-2.591	-1.941	-1.480	-1.321	-1.751	-1.583	-.946
19	-3.410	-2.691	-1.928	-2.258	-2.583	-2.070	-1.343
20	-3.957	-2.520	-1.564	-2.140	-2.617	-1.863	-1.289
21	-4.232	-2.557	-1.453	-1.963	-2.137	-1.836	-1.388
22	-3.309	-1.834	-1.024	-1.305	-1.340	-1.279	-1.128
23	-1.808	-.656	-.285	-.337	-.335	-.394	-.723
24	-1.951	-.236	-.152	-.252	-.298	-.227	-.325
25	.482	-.881	-2.505	.161	1.056	1.090	-.620
26	.995	.851	.354	1.052	*000.000	1.213	.371
27	.786	1.102	1.017	1.019	.907	.755	.477
28	.357	.759	.863	.660	.527	.429	.288
29	.034	.607	.736	.699	.634	.525	.342
30	.244	1.008	1.064	1.190	1.224	1.078	.106
31	.455	1.109	1.033	1.352	1.417	1.376	.734
32	.356	.816	.771	1.062	.997	.894	.827
33	.247	.574	.581	.720	.668	.559	.196

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.812	-4.804	-7.100	-2.230	-1.270	-.791	-2.869
2	-2.903	-5.850	-7.531	-3.188	-2.679	-2.286	-3.150
3	-3.030	-5.904	-7.266	-3.288	-3.156	-2.596	-3.043
4	-2.956	-5.177	-6.172	-3.244	-3.261	-2.819	-2.777
5	-2.423	-3.997	-4.584	-2.911	-3.107	-2.717	-2.348
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.642	-2.528	-2.822	-2.442	-2.394	-1.570	-1.980
11	-1.233	-1.730	*000.000	-1.727	-1.822	-1.116	-.770
12	-1.711	-1.358	-1.217	-1.255	-1.422	-.851	-.692
13	-1.486	-1.213	-.996	-.920	-1.104	-.681	-.569
14	-2.226	-1.231	-.971	-.999	-1.095	-.249	-.686
15	-.863	-.914	.367	.504	.384	.373	.185
16	-1.038	-.195	.011	.203	.086	.125	-.019
17	-1.992	-1.248	-.854	-.737	-1.085	-.545	-.407
18	-3.202	-2.197	-1.723	-1.728	-2.065	-1.714	-1.110
19	-4.158	-2.600	-1.911	-2.388	-2.997	-1.666	-1.317
20	-4.350	-2.706	-1.678	-2.493	-2.581	-2.108	-1.542
21	-4.388	-2.678	-1.663	-2.257	-2.378	-1.580	-1.159
22	-3.534	-1.986	-1.264	-1.552	-1.521	-1.475	-1.095
23	-2.029	-.613	-.359	-.424	-.361	-.682	-.890
24	-1.906	-.171	-.239	-.196	-.279	-.252	-.303
25	.053	-1.851	-3.655	.074	1.013	1.022	-1.347
26	1.053	.715	.237	1.179	*000.000	1.323	.075
27	.876	1.071	.953	1.079	1.061	.765	.427
28	.404	.823	.898	.666	.606	.431	.326
29	.036	.641	.745	.651	.649	.477	.361
30	.174	1.068	1.058	1.271	1.287	1.165	.401
31	.358	1.067	.918	1.308	1.365	1.318	.685
32	.359	.879	.766	1.085	1.089	.903	.748
33	.251	.554	.518	.687	.698	.490	.140

Table 21.- Continued.

(c) $C_{T,S} = 0.60$, $q_S = 21.94$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.011	-6.361	-8.377	-2.812	-1.957	-1.010	-2.714
2	-3.714	-7.477	-9.305	-4.297	-3.505	-2.579	-2.842
3	-3.343	-6.612	-7.810	-3.933	-3.711	-2.768	-2.557
4	-3.251	-5.765	-6.759	-3.782	-3.692	-2.710	-1.994
5	-2.464	-4.650	-5.326	-3.359	-3.439	-2.428	-1.543
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.741	-2.742	-2.973	-2.628	-2.532	-1.317	-.871
11	-1.413	-2.048	*000.000	-2.038	-2.137	-1.012	-.697
12	-1.456	-1.304	-1.117	-1.163	-1.259	-.536	-.561
13	-1.706	-1.248	-1.020	-.960	-1.031	-.589	-.579
14	-2.641	-1.293	-1.029	-1.067	-1.130	-.208	-.658
15	-.902	-.969	.411	.552	.393	.348	.032
16	-1.163	-.209	-.005	.148	.082	.081	-.042
17	-2.207	-1.356	-.977	-.819	-1.059	-.619	-.514
18	-3.287	-2.128	-1.765	-1.784	-1.913	-1.498	-.980
19	-4.204	-2.881	-2.034	-2.560	-2.882	-1.706	-1.030
20	-4.343	-2.572	-1.843	-2.602	-2.834	-1.640	-1.121
21	-3.872	-2.294	-1.545	-2.229	-2.373	-1.643	-1.101
22	-3.425	-1.738	-1.335	-1.688	-1.814	-1.487	-1.156
23	-2.106	-.551	-.431	-.423	-.576	-.709	-.737
24	-1.633	-.240	-.219	-.218	-.270	-.310	-.419
25	-.363	-2.969	-4.673	-.252	.822	.992	-1.647
26	1.045	.448	-.031	1.321	*000.000	1.316	-.134
27	.969	1.090	.978	1.268	1.105	.820	.291
28	.407	.855	.966	.720	.662	.423	.250
29	.054	.631	.789	.649	.579	.465	.232
30	.185	1.079	1.083	1.248	1.271	1.131	.135
31	.316	1.094	.875	1.356	1.350	1.345	.627
32	.405	.871	.798	1.049	1.038	.922	.608
33	.301	.576	.630	.816	.719	.527	.115

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.547	-7.408	-9.039	-3.317	-1.995	-1.077	-2.012
2	-4.505	-8.185	-9.575	-4.688	-3.596	-2.513	-1.869
3	-4.774	-8.317	-9.493	-5.043	-4.139	-2.706	-1.680
4	-4.215	-6.756	-7.443	-4.687	-4.111	-2.959	-1.390
5	-3.075	-4.861	-5.248	-3.460	-3.422	-2.274	-1.099
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.882	-2.778	-2.888	-2.718	-2.371	-1.242	-.869
11	-1.540	-1.949	*000.000	-2.031	-1.935	-.830	-.628
12	-1.706	-1.364	-1.147	-1.313	-1.388	-.597	-.570
13	-2.285	-1.302	-1.067	-1.032	-1.017	-.633	-.476
14	-3.077	-1.365	-1.086	-1.120	-1.093	-.173	-.388
15	-1.065	-1.046	.421	.542	.460	.389	-.005
16	-1.270	-.227	-.010	.086	.065	-.020	-.109
17	-2.242	-1.397	-.977	-.869	-.981	-.557	-.521
18	-3.362	-2.182	-1.858	-1.858	-1.780	-1.077	-.665
19	-4.202	-2.614	-2.186	-2.649	-2.551	-1.416	-.932
20	-3.725	-2.543	-1.958	-2.645	-2.564	-1.278	-.951
21	-3.569	-2.276	-1.675	-2.148	-2.104	-1.188	-.908
22	-2.964	-1.526	-1.244	-1.538	-1.667	-.977	-1.091
23	-2.026	-.683	-.595	-.458	-.539	-.775	-.753
24	-1.335	-.269	-.210	-.137	-.145	-.332	-.370
25	-1.075	-3.711	-5.401	-.591	.502	.666	-1.765
26	.763	.291	-.212	1.188	*000.000	1.102	-.240
27	.852	1.098	.880	1.234	1.110	.750	.261
28	.606	.916	1.022	.755	.676	.604	.267
29	-.056	.665	.842	.679	.593	.614	.333
30	.068	1.115	1.065	1.275	1.231	1.083	.298
31	.295	1.120	.920	1.295	1.335	1.254	.446
32	.288	.895	.773	1.027	1.003	.794	.551
33	.197	.566	.602	.752	.653	.417	.085

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-4.083	-8.249	-10.293	-3.967	-2.732	-1.229	-1.062
2	-5.211	-9.272	-10.592	-5.572	-4.280	-2.611	-.830
3	-5.100	-8.855	-9.849	-5.478	-4.637	-2.668	-.866
4	-4.793	-7.717	-8.453	-5.240	-4.508	-2.788	-.797
5	-3.597	-5.763	-6.141	-4.279	-3.933	-2.079	-.729
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-2.019	-3.034	-3.050	-2.968	-2.448	-.915	-.528
11	-1.487	-1.890	*000.000	-1.963	-1.782	-.604	-.354
12	-1.775	-1.429	-1.216	-1.392	-1.217	-.507	-.402
13	-2.152	-1.338	-1.117	-1.065	-.968	-.430	-.473
14	-2.449	-1.265	-1.079	-1.064	-.927	-.036	-.308
15	-.820	-.991	.438	.523	.340	.414	.105
16	-.976	-.320	-.041	.077	.006	.011	-.061
17	-1.746	-1.416	-.882	-.938	-.958	-.438	-.435
18	-2.634	-2.103	-1.707	-1.808	-1.646	-.965	-.818
19	-2.927	-2.406	-2.028	-2.511	-2.305	-1.155	-.763
20	-2.473	-2.326	-1.915	-2.654	-2.193	-1.147	-.974
21	-2.687	-2.185	-1.896	-2.561	-2.377	-.962	-.826
22	-2.099	-1.525	-1.359	-1.844	-1.776	-.775	-.840
23	-1.781	-.786	-.526	-.524	-.688	-.610	-.718
24	-1.340	-.399	-.288	-.188	-.147	-.294	-.333
25	-1.693	-4.403	-5.946	-.974	.275	.451	-1.182
26	.642	.121	-.420	1.139	*000.000	.961	-.093
27	.792	.984	.824	1.148	1.155	.696	.290
28	.374	.928	1.030	.756	.637	.344	.394
29	-.085	.595	.759	.647	.566	.417	.358
30	.062	1.084	1.007	1.203	1.142	.864	.274
31	.315	1.107	.817	1.236	1.252	1.183	.411
32	.286	.913	.760	1.004	.923	.750	.489
33	.199	.552	.648	.757	.677	.467	.218

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-4.534	-9.733	-11.343	-4.979	-3.223	-1.516	-.538
2	-5.722	-10.173	-11.243	-6.162	-4.675	-1.979	-.365
3	-5.519	-9.639	-10.350	-5.992	-5.069	-2.116	-.530
4	-4.286	-7.200	-7.886	-5.200	-4.219	-1.763	-.460
5	-3.870	-6.204	-6.518	-4.578	-4.118	-1.343	-.359
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-2.076	-3.279	-3.349	-3.149	-2.738	-.624	-.454
11	-1.533	-1.972	*000.000	-2.031	-1.864	-.349	-.284
12	-1.754	-1.388	-1.204	-1.287	-1.269	-.354	-.401
13	-1.945	-1.314	-1.172	-1.095	-.899	-.224	-.335
14	-1.787	-1.301	-1.161	-1.083	-.939	-.039	-.300
15	-.805	-.886	.509	.527	.325	.523	.132
16	-.939	-.312	.037	.103	.035	.176	-.042
17	-1.542	-1.362	-.876	-.875	-.827	-.324	-.441
18	-2.358	-1.980	-1.575	-1.717	-1.423	-.650	-.702
19	-2.451	-2.202	-2.011	-2.488	-2.112	-.746	-.622
20	-1.915	-2.116	-1.977	-2.852	-2.427	-.822	-.947
21	-1.885	-1.744	-1.725	-2.113	-1.830	-.606	-.756
22	-1.795	-1.399	-1.420	-1.894	-1.623	-.771	-.786
23	-1.543	-.711	-.556	-.323	-.631	-.559	-.641
24	-1.169	-.403	-.294	-.150	-.195	-.427	-.459
25	-2.126	-5.519	-6.883	-1.502	.028	-.096	-.756
26	.146	-.501	1.035	*000.000	.671	-.055	
27	.336	.898	.803	1.058	1.162	.364	.242
28	.066	.824	.973	.834	.658	.259	.337
29	-.135	.562	.770	.664	.534	.399	.407
30	.098	1.237	.991	1.371	1.276	.961	.141
31	.283	1.114	.805	1.296	1.265	1.112	.442
32	.189	.796	.707	1.069	.869	.691	.476
33	.049	.354	.512	.784	.557	.370	.169

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-6.256	-11.599	-12.658	-6.151	-4.067	-1.337	-.396
2	-6.164	-11.396	-12.097	-6.619	-5.058	-1.825	-.331
3	-5.793	-10.840	-11.079	-6.703	-5.479	-1.459	-.373
4	-4.510	-8.410	-8.834	-5.875	-4.981	-1.196	-.380
5	-3.150	-6.085	-6.407	-4.578	-4.025	-.543	-.260
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.665	-2.993	-3.091	-3.037	-2.474	-.505	-.402
11	-1.192	-1.841	*000.000	-2.030	-1.683	-.366	-.351
12	-1.719	-1.317	-1.267	-1.386	-1.088	-.296	-.345
13	-1.869	-1.259	-1.225	-1.079	-.781	-.297	-.347
14	-1.514	-1.202	-1.210	-1.157	-.982	.019	-.560
15	-.880	-.893	.359	.504	.387	.441	.157
16	-.643	-.269	-.122	.057	.075	.075	-.117
17	-1.109	-1.160	-.994	-.904	-.659	-.302	-.414
18	-1.728	-1.708	-1.678	-1.719	-1.363	-.597	-.645
19	-1.978	-1.918	-2.210	-2.674	-2.182	-.672	-.654
20	-1.675	-1.755	-1.979	-2.715	-2.204	-.540	-.792
21	-1.772	-1.576	-1.845	-2.416	-2.054	-.743	-.880
22	-1.319	-1.179	-1.365	-1.813	-1.575	-.756	-.839
23	-1.156	-.890	-.595	-.539	-.637	-.541	-.688
24	-.965	-.394	-.293	-.093	-.183	-.323	-.357
25	-3.799	-6.772	-7.762	-2.402	-.190	-.479	-.671
26	-.566	-.367	-.536	.884	*000.000	.484	-.115
27	-.024	.761	.838	1.274	1.283	.336	.236
28	.072	.778	1.202	.889	.707	.324	.410
29	-.077	.449	.680	.582	.495	.382	.338
30	.245	1.124	.802	1.264	1.138	.742	.250
31	.274	1.104	.775	1.379	1.335	1.018	.324
32	.228	.675	.758	1.104	.951	.680	.508
33	.172	.209	.527	.684	.529	.364	.125

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.213	-3.029	-3.601	-4.877	-3.720	-1.353	-.508
2	-2.272	-2.319	-2.314	-6.276	-5.232	-1.454	-.475
3	-1.597	-1.450	-1.188	-5.741	-5.151	-1.229	-.367
4	-1.640	-1.042	-.837	-5.396	-4.986	-.496	-.398
5	-1.023	-.804	-.770	-4.205	-4.166	-.531	-.436
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.008	-.872	-.822	-2.680	-2.419	-.457	-.436
11	-.998	-.836	*000.000	-1.739	-1.833	-.389	-.392
12	-.880	-.990	-.889	-1.229	-1.046	-.297	-.542
13	-.628	-.764	-.749	-.949	-.743	-.213	-.353
14	-.686	-.806	-.810	-1.100	-.919	-.047	-.524
15	-.267	-.813	.377	.501	.388	.445	.128
16	-.190	-.026	.054	.145	.070	.075	-.107
17	-.671	-.800	-.633	-.795	-.753	-.361	-.453
18	-.861	-1.052	-1.000	-1.613	-1.427	-.692	-.722
19	-.973	-1.188	-1.081	-2.375	-2.036	-.605	-.816
20	-.855	-.838	-.744	-1.837	-1.645	-.553	-.690
21	-.882	-.910	-.742	-1.639	-1.495	-.619	-.749
22	-.709	-.766	-.775	-1.443	-1.295	-.555	-.620
23	-.688	-.759	-.716	-.575	-.507	-.507	-.495
24	-.543	-.555	-.450	-.188	-.149	-.341	-.383
25	-2.122	-2.121	-2.754	-2.023	-.249	-.660	-.784
26	-.130	.427	.363	.962	*000.000	-.009	-.103
27	.123	.764	1.045	1.223	1.146	.110	.121
28	.210	.668	1.084	.908	.715	.370	.425
29	.067	.378	.600	.521	.433	.362	.357
30	.359	.975	.747	1.151	1.080	.705	.177
31	.341	.993	.833	1.351	1.310	.895	.461
32	.321	.635	.668	.943	.792	.527	.481
33	.209	.245	.441	.543	.456	.373	.184

Table 21. - Continued.

(d) $C_{T,s} = 0.30$, $q_s = 19.50$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.745	.568	.071	.060	.916	.819	.540
2	.091	-.342	-.632	-.323	.141	.057	-.133
3	-.194	-.691	-.931	-.610	-.365	-.313	-.518
4	-.663	-1.234	-1.520	-1.038	-.796	-.875	-.976
5	-.903	-1.570	-1.851	-1.090	-1.195	-1.225	-1.274
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.998	-1.505	-1.912	-1.606	-1.560	-1.142	-1.529
11	-.988	-1.415	*000.000	-1.436	-1.508	-1.293	-1.244
12	-1.513	-1.060	-1.063	-1.086	-1.167	-1.009	-.941
13	-.824	-1.029	-.952	-.781	-1.000	-.886	-.786
14	-.975	-1.002	-.899	-.841	-.972	-.131	-.717
15	-.099	-.259	.038	.219	.225	.189	-.045
16	-.112	-.094	-.021	.034	-.007	-.048	-.118
17	-.745	-1.119	-.804	-.590	-.947	-.694	-.591
18	-1.477	-1.733	-1.527	-1.250	-1.606	-1.665	-1.129
19	-2.051	-2.224	-2.019	-1.862	-2.014	-1.817	-1.348
20	-2.341	-2.283	-1.949	-2.003	-2.003	-1.842	-1.404
21	-2.525	-2.107	-1.770	-1.653	-1.898	-1.646	-1.231
22	-2.251	-1.388	-1.114	-1.063	-1.065	-1.060	-.981
23	-1.572	-.332	-.303	.226	-.385	-.318	-.583
24	-.998	-.229	-.136	-.182	-.214	-.319	-.332
25	.938	1.078	.804	.637	.952	1.054	.892
26	.305	.953	.690	.675	*000.000	.805	.788
27	-.007	.291	.223	.116	.037	.096	.149
28	-.672	.101	.131	.152	.066	.103	.104
29	.007	.300	.310	.338	.395	.390	.284
30	.895	1.101	.977	.874	1.029	1.012	.365
31	.713	1.075	.845	.826	1.198	1.132	.770
32	.474	.775	.927	.704	.889	.765	.879
33	.235	.544	.447	.662	.572	.522	.253

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.419	-.258	-1.014	.044	.443	.242	-.136
2	-.518	-1.351	-1.858	-1.380	-.699	-.909	-1.120
3	-.777	-1.770	-2.127	-1.318	-1.169	-1.297	-1.471
4	-1.205	-2.235	-2.595	-2.101	-1.847	-1.957	-2.009
5	-1.410	-2.299	-2.557	-2.052	-2.041	-2.026	-1.985
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.122	-1.699	-2.063	-1.944	-1.852	-1.436	-1.879
11	-1.102	-1.635	*000.000	-1.674	-1.884	-1.671	-1.612
12	-1.031	-1.179	-1.146	-1.144	-1.344	-1.209	-1.125
13	-.497	-1.028	-.919	-.795	-1.079	-.971	-.855
14	-1.344	-1.206	-1.026	-1.029	-1.185	-.278	-.922
15	-.229	-.353	.140	.296	.265	.277	-.036
16	-.333	-.181	-.055	.111	-.034	-.096	-.166
17	-.470	-1.099	-.758	-.601	-.895	-.683	-.565
18	-1.675	-1.828	-1.459	-1.366	-1.682	-1.716	-1.143
19	-2.778	-2.583	-2.209	-2.230	-2.512	-2.194	-1.546
20	-3.268	-2.637	-1.915	-2.338	-2.378	-2.157	-1.713
21	-3.298	-2.341	-1.736	-1.709	-1.855	-1.595	-1.354
22	-2.476	-1.677	-1.181	-1.167	-1.197	-1.185	-1.094
23	-1.802	-.413	-.391	-.286	-.316	-.398	-.760
24	-1.231	-.280	-.192	-.154	-.220	-.351	-.362
25	1.043	.917	.165	.488	1.117	1.239	.991
26	.621	1.055	.644	.700	*000.000	1.040	1.016
27	.290	.547	.501	.702	.367	.439	.422
28	.082	.329	.402	.362	.251	.277	.238
29	.064	.427	.431	.479	.494	.487	.393
30	.536	1.053	.931	1.053	1.084	1.063	.316
31	.700	1.107	.895	1.104	1.281	1.223	.955
32	.470	.891	.714	1.190	1.020	.939	1.004
33	.220	.552	.394	.590	.576	.526	.268

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.283	-1.413	-2.534	-2.014	-.770	-.965	-1.548
2	-1.310	-2.744	-3.495	-2.793	-1.996	-2.305	-2.519
3	-1.649	-3.089	-3.737	-3.183	-2.084	-2.574	-2.747
4	-1.747	-2.955	-3.501	-2.924	-2.652	-2.751	-2.824
5	-1.859	-2.923	-3.259	-2.795	-2.951	-2.901	-2.840
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.447	-2.195	-2.514	-2.498	-2.490	-1.984	-2.687
11	-1.260	-1.747	*000.000	-1.888	-2.150	-1.896	-1.805
12	-1.490	-1.315	-1.279	-1.281	-1.572	-1.410	-1.337
13	-1.209	-1.147	-.987	-.943	-1.267	-1.133	-1.011
14	-1.665	-1.243	-.940	-1.039	-1.208	-.336	-.949
15	-.516	-.522	.228	.423	.371	.346	-.109
16	-.624	-.222	-.062	.141	-.044	-.112	-.170
17	-1.531	-1.345	-.934	-.693	-1.147	-.928	-.791
18	-2.309	-2.012	-1.554	-1.531	-1.778	-1.851	-1.292
19	-3.351	-2.443	-1.992	-2.284	-2.456	-2.177	-1.580
20	-3.592	-2.412	-1.836	-2.229	-2.171	-2.065	-1.620
21	-3.490	-2.360	-1.561	-1.922	-2.041	-1.856	-1.484
22	-3.419	-1.740	-.960	-1.377	-1.213	-1.204	-1.197
23	-2.007	-.507	-.223	-.389	-.341	-.334	-.748
24	-1.688	-.355	-.232	-.221	-.277	-.341	-.390
25	.791	.329	-1.009	-.025	1.038	.910	.484
26	.673	.957	.476	.819	*000.000	1.183	.938
27	.480	.780	.651	.733	.741	.724	.618
28	.195	.441	.554	.514	.414	.437	.374
29	.055	.462	.514	.566	.562	.555	.455
30	.374	.947	.922	1.206	1.153	1.122	.398
31	.531	1.028	.875	1.256	1.222	1.175	.870
32	.330	.707	.528	.904	.874	.805	.847
33	.186	.447	.341	.675	.665	.570	.163

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.143	-2.884	-4.222	-2.835	-1.947	-2.156	-2.989
2	-2.155	-4.215	-5.409	-4.153	-3.225	-3.390	-3.678
3	-2.420	-4.441	-5.350	-4.602	-4.217	-3.986	-4.206
4	-2.060	-4.563	-5.501	-4.449	-4.253	-4.345	-4.450
5	-2.214	-3.609	-4.142	-3.507	-3.666	-3.640	-3.573
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.554	-2.449	-2.919	-2.928	-2.809	-2.428	-3.238
11	-1.488	-2.124	*000.000	-2.282	-2.591	-2.259	-2.191
12	-2.017	-1.423	-1.354	-1.367	-1.676	-1.487	-1.414
13	-1.473	-1.263	-1.080	-1.013	-1.295	-1.177	-1.086
14	-2.104	-1.269	-1.020	-.981	-1.190	-.352	-.920
15	-.642	-.703	.300	.526	.401	.361	-.128
16	-1.018	-.245	.008	.266	-.044	-.120	-.152
17	-1.435	-1.375	-.935	-.814	-1.233	-.936	-.844
18	-2.720	-1.996	-1.551	-1.577	-1.933	-1.891	-1.343
19	-3.814	-2.547	-1.980	-2.401	-2.574	-2.270	-1.603
20	-3.988	-2.462	-1.800	-2.241	-2.316	-2.189	-1.659
21	-3.956	-2.369	-1.499	-1.853	-2.012	-1.901	-1.442
22	-3.313	-1.702	-.991	-1.310	-1.243	-1.238	-1.173
23	-1.924	-.470	-.251	-.319	-.310	-.283	-.599
24	-1.574	-.535	-.278	-.196	-.337	-.298	-.483
25	.288	-.923	-2.425	-.924	.782	.234	-.640
26	.949	.907	.439	.939	*000.000	1.264	.837
27	.690	.949	.844	.950	1.023	.986	.736
28	.361	.671	.751	.820	.666	.649	.507
29	.049	.522	.604	.773	.633	.627	.532
30	.260	.999	1.006	1.283	1.175	1.123	.258
31	.471	1.042	.909	1.249	1.288	1.207	.872
32	.458	.893	.812	1.122	1.094	.994	.941
33	.269	.550	.596	.751	.720	.632	.173

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.340	-5.041	-6.810	-4.945	-4.044	-3.582	-5.141
2	-3.174	-5.899	-7.553	-6.094	-5.211	-5.100	-5.622
3	-3.385	-5.971	-7.219	-5.850	-5.437	-5.157	-5.350
4	-3.017	-5.292	-6.270	-5.238	-5.165	-4.947	-4.967
5	-2.683	-4.390	-5.286	-4.333	-4.590	-4.424	-4.251
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.747	-2.619	-3.013	-3.011	-2.901	-2.561	-3.220
11	-1.435	-2.083	*000.000	-2.240	-2.570	-2.202	-2.062
12	-2.028	-1.450	-1.374	-1.435	-1.695	-1.466	-1.289
13	-1.883	-1.394	-1.179	-1.134	-1.421	-1.215	-1.042
14	-2.816	-1.381	-1.105	-1.101	-1.282	-.332	-.871
15	-1.033	-.680	.542	.609	.460	.401	.079
16	-1.199	-.274	.045	.121	-.098	-.166	-.181
17	-2.504	-1.520	-1.039	-.936	-1.331	-.973	-.848
18	-3.149	-2.050	-1.582	-1.613	-1.933	-1.889	-1.301
19	-4.083	-2.747	-2.046	-2.232	-2.407	-2.237	-1.695
20	-4.592	-2.983	-2.034	-2.342	-2.497	-2.381	-1.847
21	-4.038	-2.508	-1.536	-1.850	-2.029	-1.805	-1.500
22	-3.445	-1.942	-1.304	-1.432	-1.394	-1.418	-1.201
23	-1.970	-.566	-.330	-.399	-.267	-.360	-.620
24	-1.901	-.423	-.153	-.342	-.234	-.236	-.498
25	-.527	-2.304	-3.870	-1.554	.030	-.288	-1.640
26	.841	.826	.095	1.065	*000.000	1.323	.271
27	.839	1.030	.417	1.304	1.325	1.188	.761
28	.374	.843	.938	.957	.848	.749	.597
29	.026	.678	.824	.810	.808	.728	.618
30	.108	1.053	.944	1.361	1.302	1.219	.115
31	.404	1.151	1.038	1.452	1.420	1.330	.957
32	.435	.472	.903	1.190	1.100	1.009	.938
33	.227	.661	.689	.798	.764	.612	.240

Table 21. - Concluded.

(d) $C_{T,s} = 0.30$, $q_s = 19.50$

$\alpha = 30°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-3.446	-6.995	-8.953	-6.117	-5.160	-4.357	-6.133
2	-4.676	-8.426	-9.936	-7.501	-6.633	-6.121	-6.457
3	-4.399	-7.815	-9.236	-7.173	-6.821	-5.840	-5.692
4	-4.278	-7.006	-8.250	-6.777	-6.598	-5.897	-5.260
5	-3.095	-5.085	-5.912	-4.960	-5.129	-4.519	-4.025
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.981	-3.079	-3.578	-3.562	-3.317	-2.631	-2.997
11	-1.568	-2.216	*000.000	-2.386	-2.685	-2.028	-1.744
12	-2.195	-1.574	-1.505	-1.572	-1.799	-1.274	-1.068
13	-2.820	-1.528	-1.331	-1.162	-1.494	-1.169	-.983
14	-3.946	-1.670	-1.355	-1.338	-1.476	-.349	-.990
15	-1.213	-.860	.527	.514	.432	.349	.046
16	-1.451	-.348	.003	.083	-.076	-.138	-.145
17	-2.983	-1.758	-1.159	-1.124	-1.526	-1.114	-.910
18	-4.041	-2.475	-1.902	-1.948	-2.221	-2.115	-1.500
19	-4.578	-2.956	-2.241	-2.520	-2.808	-2.466	-1.757
20	-4.456	-3.267	-2.174	-2.766	-2.884	-2.485	-1.776
21	-3.812	-2.838	-1.846	-2.071	-2.266	-2.022	-1.510
22	-3.504	-1.993	-1.310	-1.424	-1.357	-1.593	-1.300
23	-2.191	-.712	-.550	-.498	-.380	-.588	-.942
24	-1.960	-.417	-.208	-.186	-.266	-.325	-.468
25	-1.101	-3.333	-4.784	-2.027	-.886	-.654	-3.221
26	.806	.313	-.155	1.024	*000.000	1.234	-.093
27	.828	.879	.736	1.302	1.314	1.138	.618
28	.520	.928	1.046	1.031	.990	.819	.572
29	.034	.662	.810	.792	.778	.632	.561
30	.029	1.086	1.031	1.402	1.346	1.264	.332
31	.358	1.166	.999	1.452	1.450	1.367	.722
32	.332	.884	.826	1.126	1.079	.914	.797
33	.270	.591	.629	.835	.814	.593	.207

$\alpha = 35°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-4.892	-9.147	-11.496	-7.498	-6.198	-4.605	-6.196
2	-5.525	-9.693	-11.782	-8.700	-7.587	-5.365	-3.800
3	-6.116	-10.591	-12.518	-9.554	-8.807	-7.183	-6.771
4	-4.888	-7.670	-9.157	-7.375	-7.006	-6.064	-5.144
5	-3.636	-5.898	-6.914	-5.066	-5.632	-4.656	-3.830
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-2.128	-3.314	-3.817	-3.847	-3.663	-1.827	-1.471
11	-1.731	-2.421	*000.000	-2.562	-2.902	-1.050	-1.051
12	-2.230	-1.602	-1.449	-1.553	-1.805	-.854	-.773
13	-3.882	-1.853	-1.575	-1.560	-1.774	-.763	-.867
14	-3.557	-1.540	-1.255	-1.357	-1.399	-.276	-.705
15	-1.186	-.833	.580	.598	.476	.447	.226
16	-1.524	-.369	-.054	.072	-.109	-.105	-.068
17	-3.059	-1.751	-1.182	-1.144	-1.379	-.440	-.579
18	-4.418	-2.443	-1.941	-2.074	-2.311	-1.637	-1.013
19	-4.167	-2.847	-2.193	-2.350	-2.647	-2.182	-1.424
20	-4.718	-2.956	-2.047	-2.351	-2.600	-1.718	-1.345
21	-3.512	-2.745	-1.971	-2.211	-2.441	-1.982	-1.676
22	-3.387	-2.036	-1.518	-1.547	-1.587	-1.442	-1.445
23	-2.439	-.758	-.535	-.408	-.708	-.706	-1.230
24	-2.052	-.390	-.281	-.229	-.338	-.404	-.478
25	-1.951	-4.929	-6.661	-2.980	-1.362	-.464	-2.160
26	.602	-.096	-.488	.829	*000.000	1.257	-.124
27	.898	.918	.768	1.509	1.508	1.281	.561
28	.548	.938	1.082	.989	.951	.775	.584
29	.075	.685	.813	.837	.755	.649	.545
30	.010	1.103	1.001	1.368	1.272	1.237	.358
31	.296	1.165	.960	1.384	1.376	1.313	.708
32	.360	.952	.932	1.176	1.111	.956	.793
33	.243	.580	.663	.744	.696	.558	.187

$\alpha = 40°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-5.901	-11.040	-13.297	-8.773	-6.844	-3.323	-2.223
2	-7.025	-12.227	-14.328	-10.673	-8.676	-4.282	-1.404
3	-6.423	-11.019	-12.734	-9.506	-8.696	-4.248	-.972
4	-5.517	-8.875	-10.413	-8.417	-7.846	-3.693	-1.608
5	-4.050	-6.591	-7.632	-6.225	-5.996	-2.013	-.819
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-2.217	-3.447	-3.970	-3.799	-3.563	-.817	-.854
11	-1.583	-2.191	*000.000	-2.223	-2.483	-.871	-1.294
12	-2.345	-1.710	-1.635	-1.620	-1.528	-.780	-.762
13	-2.887	-1.485	-1.310	-1.184	-1.183	-.442	-.532
14	-3.005	-1.837	-1.567	-1.473	-1.414	-.189	-.798
15	-.949	-.844	.524	.550	.405	.545	.211
16	-1.100	-.439	-.076	.029	-.098	.085	-.106
17	-2.606	-1.722	-1.198	-1.073	-1.271	-.383	-.567
18	-3.087	-2.523	-2.120	-2.020	-2.031	-.949	-1.147
19	-3.192	-2.951	-2.436	-2.432	-2.231	-.761	-.955
20	-2.895	-2.826	-2.235	-2.430	-2.408	-.967	-1.121
21	-2.466	-2.592	-1.992	-2.048	-2.008	-.718	-.942
22	-2.456	-1.692	-1.482	-1.502	-1.460	-.683	-.910
23	-2.204	-.805	-.593	-.513	-.678	-.729	-.744
24	-1.838	-.466	-.351	-.157	-.234	-.615	-.607
25	-3.053	-7.048	-9.817	-4.282	-2.100	-.549	-2.074
26	.360	-.492	-.867	.605	*000.000	1.113	-.069
27	.834	.748	.687	1.426	1.485	1.227	.588
28	.521	.966	1.102	1.080	1.050	.681	.671
29	.059	.736	.923	.861	.805	.675	.585
30	.033	1.052	.973	1.279	1.251	1.081	.301
31	.307	1.166	1.022	1.420	1.397	1.297	.680
32	.285	.892	.897	1.136	1.080	.842	.828
33	.240	.485	.578	.724	.652	.488	.248

$\alpha = 45°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-4.218	-5.159	-4.217	-7.650	-6.848	-3.369	-1.408
2	-4.041	-4.040	-1.937	-7.769	-7.451	-3.555	-.777
3	-3.900	-3.010	-1.207	-8.050	-7.893	-3.536	-.711
4	-3.106	-1.616	-1.078	-6.697	-7.098	-3.029	-.840
5	-1.766	-1.192	-.961	-4.827	-5.548	-2.115	-1.195
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.143	-1.237	-.995	-2.595	-3.117	-.712	-.757
11	-1.182	-1.271	*000.000	-1.554	-2.124	-.759	-.670
12	-1.012	-1.199	-1.002	-1.154	-1.270	-.659	-.676
13	-.787	-.870	-.936	-.971	-1.108	-.542	-.577
14	-.744	-.827	-.909	-1.027	-1.049	-.081	-.625
15	-.164	-.781	.495	.545	.386	.476	.242
16	-.082	-.043	.065	.120	.038	.150	.022
17	-.635	-.960	-.838	-.882	-1.236	-.502	-.708
18	-.964	-1.145	-1.295	-1.500	-1.585	-.941	-.943
19	-.966	-1.161	-1.242	-1.308	-1.647	-.857	-.878
20	-.890	-1.072	-1.195	-1.379	-1.603	-.685	-1.020
21	-.871	-1.018	-1.168	-1.455	-1.580	-.811	-1.049
22	-.903	-.849	-1.051	-1.046	-1.141	-.759	-.744
23	-.737	-.775	-.827	-.938	-.737	-.765	-.748
24	-.749	-.715	-.657	-.799	-.439	-.677	-.608
25	-2.219	-3.226	-3.317	-3.532	-2.357	-.836	-1.769
26	.455	.248	.208	.701	*000.000	.685	.185
27	.730	.818	.895	1.273	1.313	.640	.560
28	.509	.916	1.028	1.024	.995	.657	.686
29	.190	.706	.837	.762	.730	.608	.650
30	.371	1.064	.960	1.216	1.208	1.013	.383
31	.500	1.132	.965	1.329	1.312	1.191	.847
32	.456	.870	.839	1.054	.994	.814	.766
33	.337	.500	.542	.667	.635	.428	.311

Table 22. - Pressure coefficients for wing with propeller rotation up at tip, basic leading edge, fences on, $\delta_f = 60°$.

(a) $C_{T,S} = 0.90$, $q_s = 20.18$

$\alpha = 5°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.852	.600	.284	.217	.994	1.052	.052
2	.209	-.109	-.471	.833	1.089	.946	-.038
3	-.048	-.395	-.670	.897	1.007	.869	-.022
4	-.399	-.746	-.980	.723	.706	.458	-.019
5	-.528	-.959	-1.084	.479	.284	.046	-.203
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.442	-.858	-1.121	-.029	-.281	-.149	-.206
11	-.388	-.921	*000.000	-.470	-.618	-.386	-.360
12	-1.060	-.650	-.745	-.428	-.557	-.306	-.273
13	-.393	-.690	-.758	-.414	-.484	-.299	-.245
14	-.522	-.766	-.802	-.509	-.518	-.106	-.226
15	-.021	-3.855	-.143	.119	.064	.073	.056
16	-1.172	-1.892	-1.796	-.932	-1.187	-.995	-.606
17	-1.693	-2.830	-2.806	-1.518	-1.608	-1.321	-.949
18	-1.858	-2.947	-2.828	-1.442	-1.544	-1.722	-1.012
19	-1.944	-2.884	-2.962	-1.502	-1.504	-1.504	-.949
20	-1.943	-2.698	-2.028	-.786	-.474	-1.034	-.780
21	-1.764	-1.737	-1.192	-.522	-.212	-.395	-.587
22	-1.500	-1.092	-.479	-.376	-.180	-.246	-.367
23	-.961	-.322	-.321	-.239	-.172	-.188	-.213
24	-.443	-.132	-.268	-.199	-.176	-.208	-.210
25	1.021	1.070	.795	-.224	.177	.210	.139
26	.624	.949	.918	-.668	*000.000	-.255	.025
27	.095	.459	.596	-.185	-.540	-.554	.023
28	.057	.302	.445	.191	-.039	-.069	.050
29	.200	.518	.469	.345	.411	.334	.205
30	.372	.854	.606	.445	.428	.363	.094
31	.861	1.132	.967	.421	.430	.752	.240
32	.744	.993	.908	.392	.960	.818	.524
33	.576	.751	.700	.465	.777	.644	.630

$\alpha = 10°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.725	.335	-.248	.264	1.077	1.084	-.085
2	-.011	-.509	-.854	.642	1.025	.880	-.004
3	-.243	-.743	-1.005	.712	.846	.762	-.198
4	-.503	-1.045	-1.272	.543	.526	.317	-.304
5	-.631	-1.220	-1.372	.389	.116	-.103	-.371
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.492	-.989	-1.249	-.164	-.433	-.227	-.189
11	-.441	-.974	*000.000	-.493	-.700	-.465	-.304
12	-1.078	-.696	-.766	-.472	-.618	-.334	-.178
13	-.459	-.691	-.719	-.430	-.560	-.331	-.183
14	-.612	-.723	-.745	-.535	-.601	-.198	-.200
15	-.105	-4.687	-.060	-.015	.003	.079	.074
16	-1.222	-1.710	-1.579	-1.022	-1.258	-1.077	-.490
17	-1.763	-2.694	-2.384	-1.538	-1.697	-1.476	-.900
18	-2.114	-2.888	-2.692	-1.887	-1.785	-1.822	-1.035
19	-2.185	-2.831	-2.913	-1.611	-1.534	-1.621	-.953
20	-2.045	-2.168	-1.667	-1.348	-.940	-1.075	-.811
21	-1.926	-1.631	-.839	-.422	-.339	-.443	-.542
22	-1.544	-.976	-.318	-.257	-.200	-.313	-.370
23	-.825	-.371	-.294	-.270	-.220	-.203	-.175
24	-.447	-.214	-.238	-.218	-.195	-.211	-.181
25	1.161	1.030	.524	-.435	.205	.279	.044
26	.732	1.007	.867	-.375	*000.000	-.222	.275
27	.155	.596	.709	-.138	-.454	-.499	.131
28	.066	.376	.510	.339	-.033	-.083	.093
29	.166	.532	.473	.448	.467	.365	.243
30	.304	.830	.635	.354	.367	.548	.238
31	.781	1.084	.944	.483	.684	.695	.221
32	.749	.976	.960	.387	1.036	.861	.834
33	.563	.730	.725	.341	.706	.697	.487

$\alpha = 15°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.533	-.015	-.725	.393	1.110	1.169	-.239
2	-.225	-.835	-1.445	.620	.979	.819	-.401
3	-.525	-1.209	-1.631	.655	.765	.699	-.303
4	-.744	-1.430	-1.710	.399	.402	.174	-.450
5	-.828	-1.508	-1.619	.192	-.035	-.255	-.500
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.571	-1.100	-1.411	-.261	-.577	-.314	-.221
11	-.520	-1.004	*000.000	-.506	-.772	-.495	-.299
12	-1.159	-.706	-.788	-.480	-.677	-.373	-.234
13	-.567	-.765	-.797	-.545	-.639	-.365	-.305
14	-.722	-.750	-.788	-.591	-.686	-.285	-.192
15	-.217	-3.680	-.117	.041	-.043	.118	.080
16	-1.395	-1.804	-1.599	-1.188	-1.513	-1.157	-.604
17	-2.083	-2.525	-2.188	-1.802	-2.024	-1.544	-.918
18	-2.412	-2.761	-2.438	-1.925	-1.984	-1.825	-1.080
19	-2.629	-2.765	-2.554	-2.081	-2.198	-1.829	-1.137
20	-2.259	-2.026	-1.545	-1.374	-.861	-1.221	-1.029
21	-2.104	-1.486	-.883	-.600	-.456	-.652	-.671
22	-1.636	-.779	-.317	-.228	-.322	-.327	-.490
23	-.761	-.407	-.246	-.316	-.229	-.281	-.361
24	-.725	-.405	-.232	-.235	-.242	-.234	-.288
25	1.067	.939	.334	-.150	.314	.475	-.057
26	.819	1.015	.859	-.100	*000.000	-.044	.301
27	.269	.662	.774	-.184	-.374	-.417	.051
28	.107	.434	.539	.264	-.008	-.064	.068
29	.148	.516	.493	.416	.444	.406	.203
30	.257	.796	.673	.395	.398	.539	.240
31	.677	1.006	.941	.532	.868	.827	.317
32	.660	.905	.827	.504	.969	.810	.872
33	.559	.737	.736	.509	.744	.664	.623

$\alpha = 20°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.308	-.534	-1.521	.368	1.125	1.083	-.233
2	-.538	-1.455	-2.206	.504	.832	.776	-.562
3	-.670	-1.687	-2.239	.523	.610	.685	-.493
4	-.926	-1.723	-2.142	.270	.204	.050	-.484
5	-.972	-1.716	-1.873	.052	-.182	-.318	-.490
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.667	-1.279	-1.562	-.350	-.679	-.410	-.374
11	-.586	-1.085	*000.000	-.580	-.859	-.584	-.409
12	-1.222	-.749	-.848	-.510	-.711	-.416	-.249
13	-.708	-.779	-.810	-.520	-.688	-.408	-.318
14	-.913	-.818	-.863	-.627	-.752	-.362	-.353
15	-.376	-3.706	-.108	.014	.027	.164	-.011
16	-1.797	-1.786	-1.630	-1.150	-1.650	-1.211	-.714
17	-2.615	-2.704	-2.360	-1.948	-2.467	-1.694	-1.033
18	-2.848	-2.811	-2.615	-2.054	-2.568	-2.105	-1.248
19	-3.040	-2.750	-2.452	-1.932	-2.226	-1.916	-1.269
20	-2.938	-2.098	-1.675	-1.319	-1.624	-1.373	-1.058
21	-2.343	-1.301	-.910	-.672	-.474	-.743	-.813
22	-2.043	-.670	-.359	-.319	-.363	-.412	-.761
23	-.995	-.441	-.330	-.271	-.283	-.335	-.370
24	-.842	-.455	-.303	-.226	-.222	-.299	-.318
25	1.100	.816	-.048	-.250	.449	.669	.054
26	.919	1.019	.808	.145	*000.000	.123	.123
27	.382	.777	.815	.052	-.223	-.422	.004
28	.159	.526	.625	.320	.027	-.074	.061
29	.125	.556	.573	.477	.502	.405	.196
30	.226	.794	.654	.504	.550	.549	.216
31	.640	1.043	.981	.695	1.038	.867	.381
32	.661	.923	.894	.885	1.061	.983	.816
33	.530	.707	.714	.684	.755	.612	.442

$\alpha = 25°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.153	-.844	-2.102	.308	1.073	1.050	-.516
2	-.730	-1.745	-2.765	.368	.667	.518	-.629
3	-.879	-1.944	-2.640	.246	.383	.258	-.719
4	-1.181	-2.093	-2.606	.120	.047	-.140	-.809
5	-1.104	-1.937	-2.239	-.118	-.396	-.478	-.567
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.728	-1.349	-1.626	-.415	-.757	-.445	-.310
11	-.611	-1.097	*000.000	-.611	-.859	-.568	-.477
12	-1.239	-.838	-.879	-.501	-.721	-.429	-.407
13	-.845	-.851	-.817	-.485	-.647	-.408	-.331
14	-1.129	-.964	-.917	-.578	-.707	-.241	-.410
15	-.576	-3.582	-.192	.054	-.015	.118	.059
16	-2.037	-1.918	-1.802	-1.219	-1.658	-1.220	-.730
17	-2.853	-2.754	-2.473	-1.735	-2.324	-1.761	-1.062
18	-3.305	-2.806	-2.712	-1.993	-2.649	-2.186	-1.263
19	-3.493	-2.861	-2.737	-2.054	-2.545	-1.968	-1.240
20	-3.041	-2.016	-1.685	-1.469	-1.554	-1.602	-1.263
21	-2.604	-1.968	-1.971	-.792	-.608	-.691	-.840
22	-1.535	-.665	-.821	-.327	-.320	-.418	-.837
23	-1.088	-.552	-.520	-.205	-.257	-.302	-.530
24	-.868	-.437	-.053	-.215	-.193	-.291	-.340
25	.991	.508	-.554	.296	.649	.780	-.241
26	1.006	1.073	.750	.186	*000.000	.301	.101
27	.428	.435	.838	.186	-.121	-.350	-.109
28	.175	.547	.857	.302	.095	-.089	-.043
29	.102	.554	.615	.546	.521	.429	.098
30	.134	.761	.692	.577	.565	.655	.170
31	.586	1.011	.998	.806	1.120	.867	.226
32	.591	.921	.918	.991	1.072	.988	.596
33	.452	.650	.648	.736	.769	.650	.318

$\alpha = 30°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	-.124	-1.381	-2.720	.598	1.009	1.013	-.408
2	-1.170	-2.234	-3.242	.493	.506	.526	-.716
3	-1.247	-2.480	-3.374	.183	.174	.184	-.856
4	-1.452	-2.484	-3.162	.006	-.265	-.277	-.756
5	-1.261	-2.225	-2.605	-.117	-.590	-.580	-.742
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.812	-1.493	-1.761	-.459	-.879	-.463	-.360
11	-.721	-1.223	*000.000	-.704	-.992	-.587	-.389
12	-1.283	-.910	-.882	-.558	-.795	-.429	-.357
13	-1.087	-1.001	-.886	-.553	-.724	-.439	-.333
14	-1.360	-1.070	-.945	-.605	-.759	-.241	-.390
15	-.741	-3.632	-.197	.056	-.044	.073	-.067
16	-2.476	-2.392	-1.962	-1.265	-1.776	-1.400	-.739
17	-3.633	-3.587	-2.827	-1.972	-2.604	-1.838	-1.054
18	-4.009	-3.883	-3.099	-2.106	-2.529	-2.285	-1.272
19	-3.769	-3.718	-3.015	-1.982	-2.463	-1.924	-1.234
20	-3.435	-3.247	-2.387	-1.422	-1.845	-1.726	-1.226
21	-2.687	-2.611	-1.814	-.594	-.694	-1.170	-.971
22	-1.915	-1.675	-1.082	-.323	-.388	-.855	-.800
23	-1.105	-.980	-.231	-.228	-.205	-.370	-.610
24	-1.012	-.526	-.034	-.257	-.198	-.341	-.240
25	.988	.333	-.917	.498	.835	.934	-.137
26	1.033	.980	.694	.475	*000.000	.335	.095
27	.500	.892	.928	.347	.002	-.285	-.029
28	.173	.584	.727	.341	.167	-.034	-.069
29	.071	.552	.614	.573	.553	.381	.101
30	.099	.764	.757	.673	.617	.654	.177
31	.459	.927	.936	.943	1.077	.765	.205
32	.537	.884	.944	.914	1.065	1.027	.630
33	.408	.681	.729	.760	.757	.695	.414

Table 22. - Continued.

(a) $C_{T,s} = 0.90$, $q_s = 20.18$

$\alpha = 35°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-.981	-1.694	-3.219	.756	.949	.983	-.814
2	-1.477	-2.634	-3.471	.318	.301	.448	-.706
3	-1.592	-2.629	-3.633	.208	-.095	.032	-.711
4	-1.651	-2.663	-3.492	-.031	-.428	-.350	-.707
5	-1.483	-2.396	-2.822	-.349	-.788	-.690	-.769
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.961	-1.585	-1.886	-.670	-1.003	-.531	-.423
11	-.939	-1.265	*000.000	-.789	-1.023	-.592	-.428
12	-1.193	-.875	-.765	-.598	-.767	-.393	-.269
13	-1.189	-.979	-.757	-.549	-.867	-.360	-.321
14	-1.483	-1.045	-.841	-.633	-.782	-.094	-.386
15	-.859	-3.344	-.241	.058	.021	.076	-.091
16	-2.340	-2.334	-1.759	-1.329	-1.730	-1.261	-.614
17	-3.445	-3.441	-2.409	-1.971	-2.483	-1.584	-.914
18	-3.525	-3.845	-2.614	-2.216	-2.785	-2.129	-1.051
19	-3.551	-3.778	-2.457	-2.171	-2.493	-1.919	-1.020
20	-3.105	-3.208	-1.808	-1.561	-1.660	-1.638	-1.108
21	-2.441	-2.518	-1.401	-.725	-.958	-1.248	-.833
22	-1.794	-1.693	-.944	-.331	-.362	-.824	-.772
23	-1.089	-.885	-.313	-.262	-.284	-.411	-.855
24	-1.191	-1.189	-.058	-.211	-.288	-.109	-.180
25	.751	.033	-1.334	.743	.910	.932	-.470
26	.961	.942	.602	.599	*000.000	.461	.029
27	.513	.682	.889	.338	.166	-.170	-.009
28	.185	.567	.709	.282	.173	-.041	-.056
29	.021	.544	.650	.549	.524	.348	-.020
30	.6.	.721	.692	.642	.643	.618	.171
31	.377	.910	.940	.962	1.034	.836	.140
32	.441	.834	1.041	.884	1.016	.898	.631
33	.350	.834	.737	.709	.751	.621	.286

$\alpha = 40°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-.774	-2.197	-3.840	.581	.807	.835	-.970
2	-1.696	-2.897	-4.141	.098	.057	.219	-.828
3	-2.044	-3.325	-4.526	-.076	-.350	-.170	-1.128
4	-1.696	-2.845	-3.648	-.303	-.611	-.416	-.706
5	-1.757	-2.600	-3.031	-.564	-.959	-.732	-.753
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.084	-1.688	-1.929	-.817	-1.116	-.505	-.277
11	-.967	-1.333	*000.000	-.914	-1.154	-.619	-.472
12	-1.234	-1.000	-.870	-.731	-.872	-.455	-.416
13	-1.204	-.994	-.833	-.621	-.767	-.444	-.304
14	-1.570	-1.130	-.883	-.694	-.818	-.084	-.344
15	-1.042	-3.271	-.177	.031	-.075	-.041	-.071
16	-2.345	-2.392	-1.656	-1.394	-1.877	-1.216	-.611
17	-3.471	-3.595	-2.172	-2.134	-2.491	-1.550	-.829
18	-3.321	-4.257	-2.588	-2.519	-2.986	-2.100	-1.203
19	-3.472	-3.994	-2.091	-2.400	-2.972	-1.957	-.865
20	-3.040	-3.243	-1.632	-1.188	-2.295	-1.565	-.995
21	-2.409	-2.547	-1.196	-.802	-1.393	-1.277	-.818
22	-2.003	-1.752	-.952	-.446	-.763	-1.058	-.870
23	-1.185	-.750	-.316	-.240	-.482	-.408	-.801
24	-1.162	-.090	-.209	-.291	-.353	-.214	-.201
25	.666	-.126	-1.589	.713	.965	.967	-.503
26	1.041	.964	.601	.699	*000.000	.496	-.044
27	.598	.900	.880	.330	.123	-.214	-.101
28	.232	.825	.759	.362	.152	-.067	-.007
29	-.011	.548	.650	.554	.493	.332	.117
30	-.050	.751	.714	.889	.625	.607	.145
31	.322	.973	.998	1.040	1.133	.849	.074
32	.446	.854	.830	.934	1.009	.952	.553
33	.358	.860	.761	.759	.803	.647	.244

$\alpha = 45°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-2.302	-2.386	-4.097	.294	.762	.755	-.860
2	-2.783	-3.358	-4.767	-.162	-.024	-.006	-1.003
3	-2.984	-3.560	-4.865	-.340	-.482	-.005	-.864
4	-2.342	-3.274	-4.097	-.575	-.846	-.521	-.839
5	-2.094	-2.832	-3.236	-.662	-1.133	-.698	-.649
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-2.276	-1.759	-1.861	-.990	-1.200	-.448	-.298
11	-1.960	-1.329	*000.000	-.988	-1.140	-.517	-.329
12	-1.227	-1.032	-.952	-.770	-.884	-.401	-.250
13	-1.408	-1.047	-.801	-.675	-.818	-.461	-.256
14	-1.806	-1.246	-.912	-.768	-.936	-.028	-.317
15	-1.090	-3.425	-.212	-.052	-.124	.083	.022
16	-2.686	-2.577	-1.629	-1.674	-2.110	-1.419	-.607
17	-3.493	-3.674	-2.035	-2.374	-2.688	-1.661	-.921
18	-3.880	-4.025	-2.171	-2.520	-3.214	-2.053	-.962
19	-3.795	-3.972	-2.041	-2.540	-3.019	-1.755	-.775
20	-3.192	-3.192	-1.422	-1.841	-2.301	-1.462	-.730
21	-2.443	-2.494	-1.156	-.768	-1.082	-.973	-.670
22	-1.947	-1.753	-.938	-.378	-.867	-.891	-.579
23	-1.408	-.717	-.264	-.292	-.409	-.460	-.620
24	-1.176	-.120	-.303	-.316	-.410	-.183	-.175
25	.310	-.333	-1.871	.844	1.030	.858	-.418
26	.948	.882	.547	.869	*000.000	.511	-.055
27	.566	.916	.972	.755	.154	-.134	.042
28	.195	.833	.776	.469	.111	-.048	.011
29	-.124	.537	.644	.580	.483	.302	.212
30	-.113	.733	.710	.726	.664	.575	.178
31	.265	.925	.930	.969	1.050	.838	.071
32	.384	.831	.777	.971	1.019	.938	.330
33	.321	.838	.658	.810	.784	.694	.253

$\alpha = 50°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-1.882	-2.703	-4.361	.535	.720	.686	-.941
2	-2.656	-3.723	-5.122	-.317	-.133	.192	-.894
3	-2.914	-3.736	-4.749	-.509	-.524	-.132	-.780
4	-2.728	-3.501	-4.177	-.816	-.850	-.526	-.632
5	-2.262	-2.986	-3.276	-.933	-1.145	-.712	-.619
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.401	-1.912	-1.982	-1.173	-1.243	-.400	-.275
11	-1.177	-1.477	*000.000	-.985	-1.147	-.532	-.400
12	-1.227	-1.088	-.924	-.721	-.842	-.355	-.337
13	-1.486	-1.126	-.845	-.671	-.742	-.320	-.367
14	-1.552	-1.180	-.834	-.708	-.725	.005	-.233
15	-.934	-3.076	-.277	-.061	-.126	.045	-.191
16	-2.320	-2.459	-1.535	-1.826	-1.978	-.999	-.573
17	-3.243	-3.614	-2.010	-2.421	-2.482	-1.429	-.794
18	-3.683	-3.917	-2.087	-2.716	-3.091	-1.271	-.765
19	-3.304	-3.855	-2.018	-2.505	-2.836	-1.436	-.757
20	-2.904	-3.089	-1.546	-2.204	-2.373	-1.183	-.942
21	-2.436	-2.357	-1.267	-1.361	-1.783	-1.059	-.624
22	-1.854	-1.695	-.977	-.627	-1.200	-.692	-.588
23	-1.380	-.538	-.347	-.353	-.350	-.408	-.580
24	-1.211	-.190	-.337	-.270	-.143	-.183	-.367
25	-.079	-.523	-1.915	.901	1.059	.844	-.576
26	.869	.820	.530	.832	*000.000	.478	-.086
27	.603	.911	.909	.543	.193	-.130	.112
28	.209	.590	.740	.317	.148	-.096	.079
29	-.174	.497	.618	.587	.453	.214	.063
30	-.159	.675	.721	.725	.620	.541	.088
31	.204	.865	.834	1.118	1.041	.774	-.015
32	.334	.885	.760	1.069	1.069	.993	.264
33	.224	.611	.540	.924	.766	.591	.038

$\alpha = 55°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-2.426	-2.839	-4.281	.291	.888	.743	-.835
2	-3.396	-4.023	-5.208	-.477	-.132	-.054	-.423
3	-3.374	-4.027	-4.962	-.753	-.595	-.100	-.535
4	-3.035	-3.660	-4.334	-.954	-.920	-.357	-.588
5	-2.570	-3.068	-3.312	-1.005	-1.182	-.413	-.579
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.514	-1.947	-1.898	-1.213	-1.455	-.378	-.374
11	-1.192	-1.393	*000.000	-.936	-1.269	-.328	-.239
12	-1.128	-1.053	-.809	-.694	-.717	-.283	-.175
13	-1.351	-1.083	-.775	-.836	-.588	-.203	-.147
14	-1.577	-1.162	-.815	-.746	-.593	-.015	-.260
15	-.999	-2.800	-.254	-.088	.029	.090	-.058
16	-2.212	-2.342	-1.577	-1.825	-1.807	-.818	-.483
17	-2.783	-3.269	-1.917	-2.898	-2.293	-1.104	-.628
18	-3.257	-3.529	-2.080	-2.886	-2.575	-1.169	-.807
19	-3.333	-3.537	-2.115	-2.814	-2.500	-1.165	-.806
20	-2.837	-2.885	-1.536	-2.350	-1.774	-.941	-.644
21	-2.413	-2.037	-1.179	-1.828	-1.660	-.794	-.643
22	-1.997	-1.451	-.828	-.923	-1.025	-.551	-.697
23	-1.230	-.455	-.358	-.319	-.308	-.330	-.371
24	-1.048	-.320	-.309	-.279	-.092	-.161	-.272
25	-.453	-.726	-2.105	.863	1.001	.625	-.493
26	.885	.743	.480	.948	*000.000	.154	-.178
27	.499	.841	.867	.451	.193	-.018	-.029
28	.134	.539	.672	.353	.110	-.030	.111
29	-.202	.431	.595	.535	.432	.153	.043
30	-.146	.633	.679	.805	.540	.385	-.055
31	.185	.828	.746	1.008	.994	.689	.024
32	.208	.824	.619	1.008	.988	.892	.199
33	.174	.581	.525	.780	.736	.491	-.136

$\alpha = 60°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-3.127	-3.418	-4.711	.445	.847	.600	-.276
2	-4.073	-4.315	-5.223	-.462	-.112	.030	-.340
3	-3.774	-4.230	-5.061	-.807	-.379	.089	-.300
4	-3.503	-3.950	-4.430	-1.004	-.826	-.357	-.356
5	-2.813	-3.258	-3.380	-1.150	-1.138	-.395	-.238
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.801	-2.267	-2.103	-1.398	-1.166	-.209	-.104
11	-1.498	-1.591	*000.000	-1.073	-1.477	-.273	-.197
12	-1.192	-1.173	-.875	-.794	-.605	-.215	-.227
13	-1.543	-1.209	-.890	-.679	-.544	-.188	-.108
14	-1.885	-1.286	-.936	-.833	-.586	-.062	-.200
15	-1.054	-2.967	-.234	-.077	.071	.190	-.129
16	-2.073	-2.396	-1.716	-1.984	-1.350	-.659	-.362
17	-3.224	-3.419	-2.184	-2.627	-1.952	-.788	-.579
18	-3.674	-3.277	-2.195	-2.708	-1.852	-.816	-.651
19	-3.140	-3.121	-2.274	-3.010	-1.994	-.755	-.728
20	-2.339	-2.392	-1.644	-2.570	-1.930	-.569	-.620
21	-1.870	-1.709	-1.209	-1.850	-1.708	-.576	-.458
22	-1.493	-1.055	-.667	-1.055	-.930	-.596	-.659
23	-1.230	-.446	-.353	-.259	-.318	-.276	-.259
24	-.876	-.343	-.385	-.121	-.074	-.130	-.180
25	-.905	-.848	-2.114	.887	1.016	.508	-.405
26	.563	.757	.499	.974	*000.000	.179	-.147
27	.490	.845	.899	.398	.121	-.094	.146
28	.129	.542	.726	.286	.064	-.055	.069
29	-.229	.496	.556	.502	.403	.133	.209
30	-.413	.656	.705	.660	.528	.378	-.189
31	.192	.883	.806	1.031	1.036	.708	-.078
32	.260	.816	.616	1.139	1.026	.896	-.001
33	.188	.567	.458	.815	.749	.516	-.290

Table 22.- Continued.

(a) $C_{T,S} = 0.90$, $q_s = 20.18$

$\alpha = 65°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-3.503	-3.571	-4.752	.485	.815	.080	-.224
2	-4.357	-4.431	-5.091	-.398	.076	-.006	-.214
3	-4.134	-4.555	-4.999	-.672	-.279	.209	-.205
4	-3.583	-3.946	-4.167	-.921	-.505	-.119	-.261
5	-2.915	-3.300	-3.305	-1.185	-.745	-.149	-.259
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.671	-2.143	-1.854	-1.241	-.942	-.177	-.140
11	-1.189	-1.530	*000.000	-1.018	-.714	-.156	-.121
12	-1.076	-1.099	-.832	-.769	-.573	-.189	-.130
13	-1.327	-1.046	-.884	-.670	-.472	-.154	-.137
14	-1.501	-1.153	-.911	-.703	-.335	-.016	-.274
15	-.852	-2.815	-.237	.062	.259	.115	-.207
16	-1.634	-1.872	-1.497	-1.501	-.863	-.687	-.451
17	-2.761	-2.761	-2.063	-2.286	-1.484	-.618	-.316
18	-2.557	-2.753	-2.272	-2.474	-1.698	-.714	-.510
19	-2.322	-2.433	-2.185	-2.391	-1.542	-.614	-.636
20	-2.184	-1.790	-1.596	-1.809	-1.422	-.701	-.529
21	-1.571	-1.303	-1.072	-1.636	-1.191	-.650	-.684
22	-1.371	-.905	-.759	-.772	-.564	-.529	-.679
23	-.982	-.385	-.353	-.284	-.394	-.381	-.496
24	-.712	-.363	-.382	-.083	-.060	-.120	-.121
25	-1.577	-1.104	-2.251	1.002	1.042	.289	-.209
26	.388	.677	.452	.896	*000.000	.167	-.017
27	.424	.862	.890	.375	.056	-.118	-.071
28	.067	.509	.671	.348	.003	-.062	.106
29	-.229	.399	.542	.492	.384	.124	-.056
30	-.355	.649	.584	.463	.502	.291	-.063
31	.138	.890	.723	1.006	.968	.620	.069
32	.212	.744	.547	1.080	.987	.820	-.154
33	.159	.501	.533	.758	.714	.454	-.132

$\alpha = 70°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-4.264	-4.041	-4.189	.659	1.009	-.093	-.194
2	-4.358	-4.963	-4.752	-.106	.775	-.113	-.169
3	-4.271	-4.906	-4.404	-.444	.410	-.320	-.320
4	-3.061	-4.334	-3.609	-.884	.167	-.132	-.211
5	-2.409	-3.561	-2.946	-1.135	-.469	-.160	-.127
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.392	-1.970	-1.388	-1.120	-.530	-.158	-.108
11	-1.045	-1.261	*000.000	-.771	-.419	-.093	-.147
12	-.814	-.823	-.579	-.474	-.291	-.042	-.161
13	-1.006	-.644	-.436	-.250	-.360	.027	-.236
14	-1.036	-.722	-.481	-.212	-.436	.030	-.176
15	-.859	-2.540	-.015	.275	.146	.136	-.109
16	-1.194	-1.223	-1.010	-.806	-1.101	-.371	-.348
17	-1.473	-1.507	-1.428	-1.400	-1.251	-.304	-.166
18	-1.907	-1.601	-1.461	-1.908	-1.956	-.551	-.759
19	-1.438	-1.449	-1.396	-1.325	-1.163	-.311	-.380
20	-1.444	-1.371	-1.181	-1.074	-1.251	-.410	-.333
21	-.954	-.786	-.738	-.771	-.697	-.366	-.384
22	-.748	-.540	-.400	-.533	-.644	-.154	-.333
23	-.545	-.260	-.256	-.250	-.279	-.211	-.154
24	-.334	-.272	-.218	-.118	-.028	-.125	-.238
25	-2.689	-1.516	-2.161	1.023	.881	-.050	-.189
26	-.340	.516	.357	.615	*000.000	-.001	-.167
27	-.029	.687	.588	.050	-.134	-.001	.002
28	.060	.473	.589	.075	-.015	.060	.078
29	-.209	.291	.445	.412	.291	.044	-.027
30	-.417	.665	.552	.567	.395	.277	.016
31	.145	.934	.625	.936	.878	.355	-.134
32	.209	.606	.537	1.001	.935	.553	-.242
33	.080	.258	.443	.746	.699	.324	-.243

$\alpha = 75°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-4.330	-4.210	-4.823	.496	1.016	-.340	-.078
2	-4.583	-5.151	-5.353	-.233	.439	-.103	-.211
3	-4.143	-4.770	-4.538	-.313	.251	.028	-.022
4	-3.484	-4.572	-4.393	-.984	-.152	-.294	-.116
5	-2.393	-3.466	-3.073	-1.077	-.305	-.257	-.003
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.543	-2.182	-1.710	-1.293	-.694	-.177	-.090
11	-1.149	-1.381	*000.000	-.937	-.647	-.165	-.233
12	-1.012	-.942	-.706	-.631	-.416	-.068	-.135
13	-1.297	-.885	-.682	-.396	-.305	-.073	-.078
14	-1.327	-.938	-.720	-.338	-.483	-.014	-.018
15	-1.058	-2.654	-.104	.178	.223	.101	-.024
16	-1.713	-1.757	-1.352	-1.443	-1.308	-.404	-.404
17	-2.043	-1.709	-1.394	-1.445	-1.598	-.293	-.388
18	-2.170	-1.994	-1.805	-1.801	-1.483	-.534	-.447
19	-2.093	-1.877	-1.688	-1.552	-1.472	-.441	-.278
20	-1.477	-1.444	-1.431	-1.645	-1.162	-.390	-.310
21	-1.205	-1.037	-.924	-.822	-.815	-.383	-.101
22	-.982	-.706	-.623	-.600	-.599	-.275	.002
23	-.688	-.335	-.371	-.247	-.238	-.230	-.005
24	-.508	-.280	-.254	-.090	-.111	-.135	-.092
25	-2.309	-1.340	-1.938	1.050	.981	-.018	.024
26	-.110	.574	.384	.809	*000.000	-.029	-.030
27	.137	.796	.808	.213	-.100	.098	.139
28	-.007	.527	.635	.106	-.012	.052	.086
29	-.282	.348	.402	.463	.268	-.006	.051
30	-.584	.692	.504	.654	.394	.324	.080
31	-.002	.851	.584	.955	.882	.391	.014
32	.150	.653	.509	.997	.925	.576	.060
33	.051	.311	.430	.765	.704	.366	-.118

$\alpha = 80°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-4.055	-3.951	-4.736	.378	.829	-.176	-.289
2	-4.474	-4.941	-5.359	-.562	.152	-.102	-.248
3	-4.124	-4.747	-4.863	-.616	.029	-.136	-.069
4	-3.600	-4.395	-4.391	-1.043	-.219	-.183	-.153
5	-2.935	-3.563	-3.319	-1.111	-.503	-.273	-.245
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.688	-2.224	-1.763	-1.298	-.686	-.137	-.255
11	-1.195	-1.619	*000.000	-1.041	-.610	-.041	-.013
12	-1.137	-1.061	-.811	-.706	-.408	-.109	-.265
13	-1.308	-.929	-.730	-.562	-.322	-.153	-.254
14	-1.481	-.975	-.751	-.516	-.341	-.005	-.332
15	-.910	-2.607	-.169	.027	.108	.123	-.064
16	-1.868	-1.928	-1.442	-1.374	-.906	-.585	-.417
17	-2.146	-2.340	-1.857	-1.432	-1.071	-.551	-.358
18	-2.829	-2.420	-2.031	-1.999	-1.791	-.350	-.372
19	-2.239	-2.186	-2.073	-2.270	-1.799	-.743	-.631
20	-1.821	-1.498	-1.446	-1.336	-1.505	-.635	-.582
21	-1.407	-1.145	-1.079	-1.169	-.954	-.422	-.355
22	-1.268	-.850	-.777	-.903	-.751	-.330	-.288
23	-.884	-.314	-.351	-.285	-.206	-.243	-.114
24	-.561	-.320	-.426	-.156	-.067	-.143	-.088
25	-1.828	-1.277	-2.166	1.038	1.049	.154	-.294
26	.126	.644	.471	.947	*000.000	.080	-.052
27	.186	.826	.875	.363	-.030	-.050	.065
28	.015	.452	.623	.285	-.021	-.007	.017
29	-.316	.340	.516	.441	.363	.040	-.103
30	-.488	.652	.642	.511	.456	.338	-.219
31	.102	.884	.678	1.011	1.010	.697	-.146
32	.203	.728	.553	1.099	1.021	.776	.177
33	.091	.370	.473	.719	.728	.429	-.098

Table 22.- Continued.

(b) $C_{T,S} = 0.80$, $q_s = 19.97$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.404	.522	.090	-.015	1.152	1.242	.080
2	.211	-.391	-.668	.447	1.024	.882	-.101
3	-.041	-.585	-.805	.649	.740	.621	-.150
4	-.442	-1.050	-1.212	.695	.410	.202	-.347
5	-.672	-1.179	-1.208	.212	-.073	-.203	-.355
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.563	-.988	-1.230	-.328	-.573	-.325	-.340
11	-.544	-1.036	*000.000	-.638	-.802	-.554	-.463
12	-1.149	-.747	-.879	-.565	-.727	-.490	-.459
13	-.576	-.933	-.870	-.548	-.668	-.493	-.370
14	-.676	-.814	-.808	-.630	-.665	-.162	-.388
15	-.110	-2.099	-.127	-.073	-.915	.027	-.063
16	-1.398	-1.934	-1.694	-1.139	-1.317	-1.322	-.809
17	-2.071	-2.885	-2.427	-1.726	-1.817	-1.844	-1.294
18	-2.495	-3.145	-2.862	-1.961	-1.885	-2.134	-1.459
19	-2.582	-2.911	-2.497	-1.901	-1.540	-1.997	-1.389
20	-2.301	-2.094	-1.583	-1.344	-.760	-1.153	-1.069
21	-2.271	-1.458	-.809	-.670	-.441	-.694	-.677
22	-1.660	-.538	-.346	-.374	-.313	-.301	-.477
23	-.891	-.344	-.397	-.296	-.209	-.293	-.237
24	-.542	-.419	-.237	-.312	-.254	-.261	-.266
25	1.083	1.106	.562	-.317	.320	.670	.200
26	.711	.498	.411	-.151	*000.000	.257	.549
27	.102	.494	.302	-.218	-.335	.301	.054
28	.077	.357	.445	.288	.010	-.005	.072
29	.228	.532	.480	.417	.504	.442	.244
30	.357	.825	.575	.445	.353	.463	.050
31	.853	1.152	.992	.470	.713	.715	.487
32	.831	1.040	.928	.511	1.127	.783	.865
33	.593	.788	.717	.514	.791	.685	.507

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.649	-.013	-.923	.382	1.180	1.157	.083
2	-.131	-.932	-1.458	.431	.745	.606	-.369
3	-.429	-1.258	-1.599	.322	.498	.448	-.437
4	-.735	-1.514	-1.861	.054	.144	-.026	-.455
5	-.877	-1.589	-1.705	-.018	-.284	-.448	-.506
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.896	-1.219	-1.526	-.508	-.761	-.478	-.420
11	-.870	-1.166	*000.000	-.736	-.961	-.735	-.535
12	-1.287	-.868	-.936	-.642	-.838	-.575	-.518
13	-.873	-.877	-.927	-.633	-.749	-.549	-.400
14	-.836	-.846	-.848	-.687	-.761	-.306	-.384
15	-.294	-2.239	-.246	-.019	-.041	.005	.050
16	-1.837	-1.996	-1.748	-1.385	-1.637	-1.556	-.956
17	-2.405	-2.884	-2.438	-1.985	-2.234	-1.959	-1.169
18	-2.814	-3.037	-2.907	-2.280	-2.470	-2.345	-1.470
19	-2.898	-2.863	-2.609	-2.034	-2.042	-1.927	-1.314
20	-2.774	-2.249	-1.807	-1.606	-.969	-1.421	-1.140
21	-2.363	-1.297	-1.028	-.826	-.577	-.656	-.730
22	-1.838	-.562	-.388	-.364	-.317	-.329	-.480
23	-.846	-.414	-.405	-.278	-.265	-.285	-.339
24	-.771	-.420	-.310	-.251	-.245	-.281	-.329
25	1.121	.985	.175	.195	.508	.801	.413
26	.794	1.032	.796	.117	*000.000	.356	.473
27	.245	.005	.722	.154	-.173	-.230	.084
28	.134	.445	.564	.332	.088	-.027	.120
29	.193	.559	.497	.503	.553	.486	.275
30	.285	.847	.585	.585	.561	.541	.080
31	.888	1.028	.888	.721	1.007	1.013	.478
32	.796	1.067	.842	.930	1.172	1.061	.927
33	.615	.786	.737	.723	.840	.752	.478

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.415	-.573	-1.712	.454	1.130	1.137	-.211
2	-.509	-1.753	-2.581	.313	.961	.481	-.491
3	-.737	-1.989	-2.842	-.282	.217	.186	-.731
4	-1.014	-2.025	-2.384	-.103	-.169	-.267	-.698
5	-1.095	-1.907	-2.104	-.176	-.580	-.660	-.730
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.745	-1.443	-1.676	-.650	-.946	-.591	-.560
11	-.738	-1.261	*000.000	-.807	-1.049	-.763	-.600
12	-1.392	-.971	-.980	-.684	-.879	-.551	-.499
13	-.828	-.980	-.965	-.655	-.816	-.575	-.504
14	-1.060	-1.081	-1.040	-.716	-.792	-.366	-.421
15	-.314	-2.425	-.294	.021	-.065	.073	-.001
16	-2.047	-2.448	-2.231	-1.444	-1.957	-1.566	-.882
17	-3.042	-3.522	-3.030	-2.087	-2.587	-1.876	-1.144
18	-3.344	-3.267	-3.130	-2.308	-2.868	-2.332	-1.393
19	-3.786	-3.774	-3.481	-2.463	-2.880	-2.158	-1.370
20	-3.312	-3.055	-2.644	-1.975	-1.989	-1.551	-1.230
21	-2.510	-1.544	-1.762	-.783	-.827	-.814	-.923
22	-1.783	-1.182	-1.125	-.370	-.412	-.340	-.411
23	-1.085	-.821	-.354	-.266	-.293	-.288	-.353
24	-.958	-.585	-.174	-.199	-.273	-.251	-.330
25	1.128	.753	.430	.395	.900	1.077	.262
26	.901	1.044	.737	.402	*000.000	.584	.575
27	.414	.854	.885	.424	-.007	-.044	.278
28	.178	.531	.648	.365	.170	.086	.106
29	.147	.564	.598	.517	.556	.494	.281
30	.242	.833	.722	.619	.883	.632	.188
31	.634	1.042	.987	.886	1.177	1.031	.408
32	.648	.967	.881	.991	1.099	1.007	.996
33	.508	.739	.614	.793	.830	.712	.387

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.021	-1.273	-2.773	.412	.909	.969	-.470
2	-.884	-2.340	-3.567	-.117	.175	.242	-.880
3	-1.149	-2.853	-3.803	-.276	-.188	-.147	-1.003
4	-1.478	-2.807	-3.408	-.389	-.606	-.649	-1.054
5	-1.564	-2.446	-2.883	-.572	-.957	-.944	-.930
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.950	-1.638	-1.887	-.756	-1.157	-.771	-.661
11	-.895	-1.466	*000.000	-.976	-1.298	-.911	-.681
12	-1.377	-1.021	-.970	-.731	-.923	-.586	-.479
13	-.982	-1.073	-.910	-.640	-.776	-.523	-.436
14	-1.321	-1.233	-1.014	-.771	-.895	-.364	-.465
15	-.764	-2.455	-.255	-.044	-.069	.109	-.005
16	-2.364	-2.501	-1.923	-1.278	-1.767	-1.538	-.784
17	-3.867	-3.884	-2.793	-2.348	-2.806	-2.057	-1.413
18	-4.323	-4.173	-2.948	-2.596	-2.919	-2.488	-1.708
19	-4.193	-3.847	-2.773	-2.524	-2.593	-2.304	-1.311
20	-3.897	-3.440	-1.939	-1.774	-1.690	-1.828	-1.355
21	-3.008	-2.057	-1.446	-.809	-.817	-.899	-1.028
22	-2.108	-1.850	-.910	-.383	-.337	-.386	-.728
23	-1.427	-.826	-.299	-.338	-.296	-.312	-.321
24	-1.218	-.390	-.165	-.254	-.242	-.354	-.385
25	1.070	.267	-1.231	.847	.939	1.149	-.078
26	1.057	1.051	.528	.867	*000.000	.759	.328
27	.525	.964	.973	.868	.231	.046	.221
28	.240	.850	.831	.450	.257	.153	.108
29	.130	.851	.704	.722	.652	.559	.380
30	.102	.836	.804	.721	.749	.802	.336
31	.492	1.009	.961	.934	1.201	1.009	.453
32	.588	.955	.962	1.033	1.153	1.065	1.031
33	.494	.758	.773	.809	.852	.712	.304

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.300	-2.054	-3.924	.468	.994	.844	-1.022
2	-1.439	-3.335	-4.750	-.357	-.109	-.101	-1.438
3	-1.573	-3.295	-4.416	-.469	-.893	-.500	-1.506
4	-1.672	-3.075	-3.858	-.739	-.991	-.941	-1.349
5	-1.623	-2.733	-3.177	-.998	-1.324	-1.238	-1.278
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.093	-1.809	-2.089	-.988	-1.421	-.936	-.815
11	-.950	-1.455	*000.000	-1.071	-1.353	-.989	-.775
12	-1.450	-1.082	-.948	-.869	-1.034	-.705	-.600
13	-1.182	-1.142	-.969	-.755	-.965	-.670	-.530
14	-1.618	-1.391	-1.085	-.869	-1.007	-.286	-.543
15	-.894	-2.427	-.218	-.039	-.132	.005	-.063
16	-2.782	-2.881	-2.018	-1.683	-2.185	-1.809	-1.009
17	-3.751	-3.931	-2.950	-2.413	-2.814	-2.281	-1.349
18	-4.224	-4.214	-2.881	-2.638	-3.025	-2.984	-1.640
19	-4.441	-4.308	-2.767	-2.685	-2.991	-2.690	-1.488
20	-3.871	-3.731	-1.935	-2.078	-1.819	-2.197	-1.510
21	-2.498	-2.007	-1.304	-.931	-1.129	-1.563	-1.223
22	-2.178	-1.860	-.978	-.431	-.426	-.631	-.880
23	-1.416	-.854	-.234	-.388	-.367	-.446	-.393
24	-1.415	-.815	-.152	-.263	-.253	-.313	-.349
25	.947	-.044	-1.634	.780	1.080	1.208	-.362
26	1.078	.998	.610	.773	*000.000	.849	.242
27	.582	.993	.923	.778	.378	.152	.081
28	.281	.716	.850	.511	.343	.168	.114
29	.100	.833	.733	.671	.628	.514	.229
30	.031	.821	.818	.743	.753	.733	.288
31	.418	.993	.993	1.038	1.145	.953	.304
32	.587	1.002	.941	1.159	1.167	1.088	.880
33	.428	.767	.738	.824	.843	.707	.212

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.758	-2.906	-4.989	-.113	.348	.697	-1.509
2	-1.741	-3.892	-5.472	-.811	-.660	-.337	-1.535
3	-2.039	-3.924	-5.240	-1.017	-1.154	-.686	-1.669
4	-2.087	-3.668	-4.702	-.989	-1.410	-1.269	-1.650
5	-1.990	-3.045	-3.621	-1.141	-1.612	-1.353	-1.373
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.260	-1.966	-2.250	-1.351	-1.508	-.888	-.753
11	-1.100	-1.559	*000.000	-1.236	-1.513	-.965	-.729
12	-1.416	-1.112	-.987	-.882	-1.088	-.612	-.540
13	-1.370	-1.150	-.957	-.768	-.948	-.572	-.492
14	-1.674	-1.282	-.965	-.896	-.986	-.193	-.540
15	-.994	-2.282	-.276	-.031	-.124	.041	-.018
16	-2.474	-2.516	-1.729	-1.790	-2.048	-1.773	-.870
17	-3.823	-4.042	-2.942	-2.585	-3.041	-2.330	-1.409
18	-4.124	-4.074	-2.950	-2.713	-3.269	-2.859	-1.550
19	-4.060	-4.321	-2.977	-2.893	-3.181	-2.642	-1.630
20	-3.195	-3.502	-1.784	-2.054	-1.906	-2.307	-1.450
21	-2.000	-2.739	-1.407	-.891	-1.076	-1.565	-1.153
22	-2.174	-1.793	-.936	-.400	-.543	-1.222	-1.081
23	-1.604	-.891	-.276	-.290	-.303	-.441	-.730
24	-1.592	-.878	-.264	-.375	-.369	-.271	-.450
25	.839	-.856	-2.346	.788	1.076	1.221	-.830
26	1.112	.948	.464	.802	*000.000	.895	.035
27	.668	1.015	.948	.950	.488	.154	.050
28	.275	.781	.857	.534	.348	.173	.120
29	.048	.867	.739	.712	.631	.527	.147
30	-.047	.822	.785	.808	.743	.732	.141
31	.343	1.008	.983	1.136	1.190	1.039	.130
32	.501	.991	.932	1.175	1.151	1.127	.820
33	.398	.741	.687	.839	.837	.737	.411

Table 22. - Continued.

(b) $C_{T,s} = 0.80$, $q_s = 19.97$

$\alpha = 35°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	-1.251	-3.695	-5.590	-.081	.272	.790	-1.418
2	-2.309	-4.457	-6.098	-1.079	-.775	-.405	-1.661
3	-2.446	-4.672	-6.130	-1.418	-1.426	-.774	-1.679
4	-2.498	-4.134	-5.142	-1.041	-1.044	-1.088	-1.416
5	-2.117	-3.399	-4.034	-1.598	-1.837	-1.376	-1.274
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.403	-2.000	-2.298	-1.543	-1.802	-.783	-.552
11	-1.214	-1.632	.000.000	-1.329	-1.536	-.832	-.645
12	-1.411	-1.172	-.996	-.959	-1.066	-.539	-.475
13	-1.492	-1.208	-.968	-.825	-.955	-.628	-.540
14	-1.674	-1.248	-.966	-.924	-1.020	-.148	-.502
15	-1.085	-2.274	-.195	-.060	-.143	-.077	-.130
16	-2.620	-2.941	-1.815	-1.885	-2.217	-1.748	-.846
17	-3.492	-4.029	-2.335	-2.801	-3.210	-2.524	-1.420
18	-3.770	-4.146	-2.401	-3.115	-3.425	-2.528	-1.786
19	-3.634	-4.070	-2.096	-2.942	-3.435	-2.755	-1.506
20	-3.167	-3.298	-1.713	-1.955	-2.332	-2.360	-1.533
21	-2.644	-2.383	-1.289	-.957	-1.434	-1.757	-1.239
22	-2.053	-1.572	-.772	-.468	-.624	-1.252	-1.080
23	-1.749	-.592	-.380	-.423	-.496	-.534	-.708
24	-1.463	-.149	-.342	-.339	-.506	-.374	-.350
25	.438	-1.066	-2.810	.737	1.122	1.231	-.892
26	1.114	.883	.389	1.154	.000.000	.943	-.107
27	.700	1.051	1.006	1.095	.598	.194	.178
28	.245	.794	.459	.519	.358	.149	.006
29	-.405	.694	.751	.724	.623	.513	.206
30	-.167	.856	.655	.893	.831	.784	.041
31	.249	1.021	1.035	1.222	1.232	1.094	.139
32	.411	.976	.796	1.155	1.136	1.110	.586
33	.359	.719	.592	.841	.904	.695	.281

$\alpha = 40°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	-1.915	-4.457	-6.344	-.613	-.056	.555	-1.566
2	-2.580	-5.288	-6.868	-1.419	-1.103	-.558	-1.327
3	-3.113	-5.391	-6.699	-1.842	-1.631	-.884	-1.541
4	-2.808	-4.590	-5.381	-1.815	-1.703	-1.082	-.992
5	-2.445	-3.720	-4.154	-1.829	-1.694	-1.181	-.881
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.600	-2.274	-2.385	-1.760	-1.769	-.748	-.444
11	-1.799	-1.622	.000.000	-1.380	-1.416	-.643	-.434
12	-1.333	-1.149	-.962	-.963	-.981	-.467	-.401
13	-1.626	-1.192	-.895	-.828	-.808	-.562	-.565
14	-1.934	-1.302	-.945	-.941	-.873	-.085	-.480
15	-1.140	-2.291	-.244	-.083	-.102	.041	-.072
16	-2.592	-2.831	-1.729	-1.998	-2.152	-1.699	-.947
17	-3.592	-3.743	-2.137	-2.691	-2.579	-1.851	-1.376
18	-3.810	-3.965	-2.312	-3.060	-3.029	-2.428	-1.340
19	-3.951	-3.959	-2.206	-3.393	-3.551	-2.632	-1.609
20	-3.063	-3.134	-1.730	-2.655	-2.746	-2.161	-1.527
21	-2.472	-2.213	-1.273	-1.130	-2.073	-1.637	-1.111
22	-2.091	-1.451	-.784	-.785	-1.388	-1.400	-1.158
23	-1.486	-.489	-.446	-.450	-.587	-.524	-.815
24	-1.325	-.320	-.380	-.450	-.497	-.247	-.384
25	.126	-1.674	-3.419	.766	1.081	1.238	-1.025
26	.947	.704	.300	.763	.000.000	.951	-.238
27	.750	1.073	1.003	1.176	.643	.130	.125
28	.203	.809	.929	.566	.414	.164	.133
29	-.083	.812	.710	.672	.616	.433	.146
30	-.278	.821	.846	.872	.791	.716	.041
31	.206	1.055	.986	1.268	1.272	1.102	.090
32	.409	.984	.823	1.197	1.149	1.116	.513
33	.332	.847	.584	.835	.863	.660	.244

$\alpha = 45°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	-2.588	-5.171	-6.815	-.755	-.107	.208	-1.758
2	-3.491	-5.831	-7.228	-1.761	-1.329	-.582	-1.551
3	-3.847	-5.851	-6.818	-2.073	-1.718	-.796	-1.305
4	-3.271	-4.912	-5.705	-2.120	-1.877	-1.182	-1.043
5	-2.653	-3.878	-4.214	-1.951	-1.866	-1.114	-.833
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.781	-2.389	-2.242	-1.882	-1.839	-.582	-.475
11	-1.416	-1.719	.000.000	-1.471	-1.367	-.594	-.441
12	-1.354	-1.201	-.981	-.986	-.875	-.441	-.525
13	-1.712	-1.251	-.969	-.902	-.812	-.461	-.457
14	-1.868	-1.292	-.990	-1.029	-.893	-.058	-.519
15	-1.150	-2.236	-.294	-.166	-.055	.012	-.248
16	-2.342	-2.587	-1.734	-2.229	-2.032	-1.324	-1.114
17	-3.125	-3.667	-2.198	-3.192	-3.106	-1.876	-1.127
18	-3.759	-3.679	-2.352	-3.528	-3.699	-2.496	-1.583
19	-3.227	-3.587	-2.247	-3.693	-2.953	-2.116	-1.330
20	-2.908	-2.805	-1.723	-3.001	-2.525	-1.876	-1.409
21	-2.338	-1.992	-1.252	-2.130	-2.190	-1.267	-1.104
22	-1.901	-1.224	-.770	-1.243	-1.332	-.909	-.819
23	-1.754	-.512	-.440	-.471	-.508	-.536	-.703
24	-1.326	-.436	-.416	-.422	-.109	-.243	-.300
25	-.272	-2.007	-3.697	.589	1.026	1.026	-1.384
26	.973	.851	.169	.693	.000.000	.953	-.312
27	.751	1.038	.992	1.069	.602	.247	-.061
28	.243	.800	.737	.482	.393	.158	-.015
29	-.125	.621	.764	.707	.611	.366	-.001
30	-.452	.622	.787	.821	.761	.610	-.134
31	.176	1.057	1.027	1.261	1.267	1.074	-.120
32	.388	.986	.707	1.126	1.157	1.094	.274
33	.327	.739	.672	.900	.908	.642	-.040

$\alpha = 50°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	-3.241	-5.584	-7.092	-.956	-.231	.001	-1.184
2	-4.399	-6.447	-7.418	-2.060	-1.277	-.653	-1.210
3	-4.263	-6.151	-6.792	-2.246	-1.814	-.812	-.951
4	-4.010	-5.662	-6.403	-2.543	-2.090	-1.114	-.733
5	-3.144	-4.267	-4.449	-2.210	-2.075	-1.114	-.601
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.822	-2.405	-2.266	-1.827	-1.539	-.453	-.312
11	-1.511	-1.818	.000.000	-1.442	-1.302	-.445	-.322
12	-1.423	-1.298	-1.009	-1.033	-.814	-.408	-.396
13	-1.869	-1.245	-.983	-.917	-.720	-.528	-.492
14	-1.932	-1.395	-1.044	-1.080	-.721	-.085	-.459
15	-1.077	-2.071	-.237	-.185	.080	.182	-.162
16	-2.410	-2.590	-1.847	-2.213	-1.803	-1.271	-.805
17	-3.423	-3.238	-2.197	-2.940	-2.059	-1.425	-1.027
18	-3.574	-3.253	-2.361	-3.335	-2.489	-2.027	-1.168
19	-3.178	-3.305	-2.549	-3.684	-2.560	-1.685	-1.073
20	-2.508	-2.487	-1.755	-3.097	-2.377	-1.376	-1.088
21	-2.100	-1.819	-1.154	-2.143	-1.824	-1.118	-.984
22	-1.684	-1.082	-.702	-1.227	-1.194	-.966	-.993
23	-1.358	-.510	-.456	-.416	-.565	-.510	-.512
24	-.972	-.426	-.475	-.258	-.153	-.209	-.197
25	-.943	-2.426	-3.729	.674	1.034	.770	-1.075
26	.680	.594	.168	1.202	.000.000	.818	-.211
27	.678	1.024	.888	1.083	.631	.221	.124
28	.210	.733	.847	.496	.347	.125	.120
29	-.143	.566	.712	.651	.561	.269	.118
30	-.333	.789	.758	.791	.733	.646	-.034
31	.179	1.106	.961	1.278	1.216	1.056	.036
32	.320	.929	.732	1.134	1.123	1.009	.184
33	.200	.605	.596	.874	.823	.532	-.081

$\alpha = 55°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	-3.902	-5.653	-6.617	-.962	-.245	.205	-1.844
2	-4.758	-6.662	-7.225	-2.033	-1.391	-.525	-1.824
3	-4.658	-6.487	-6.668	-2.112	-1.676	-.659	-1.693
4	-4.032	-5.470	-5.481	-2.260	-1.793	-.792	-1.498
5	-3.342	-4.378	-4.282	-2.184	-2.016	-.835	-1.435
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-1.866	-2.557	-2.265	-1.939	-1.497	-.446	-.248
11	-1.550	-1.735	.000.000	-1.402	-1.056	-.327	-.248
12	-1.338	-1.293	-.993	-1.050	-.880	-.250	-.238
13	-1.576	-1.193	-.971	-.855	-.565	-.333	-.315
14	-1.515	-1.207	-1.026	-.965	-.541	.056	-.342
15	-1.155	-2.044	-.188	-.171	-.144	-.149	-.187
16	-2.128	-2.224	-1.735	-2.251	-1.537	-1.170	-.580
17	-2.949	-3.061	-2.313	-2.897	-1.972	-1.221	-.799
18	-3.160	-2.944	-2.354	-3.099	-2.126	-1.508	-1.077
19	-2.731	-2.795	-2.249	-3.094	-2.011	-1.413	-.872
20	-2.218	-2.201	-1.758	-2.942	-2.146	-1.301	-1.142
21	-1.693	-1.550	-1.177	-2.188	-1.482	-1.094	-1.149
22	-1.488	-.913	-.537	-1.231	-.959	-.595	-.561
23	-1.069	-.436	-.439	-.399	-.401	-.422	-.446
24	-.798	-.470	-.520	-.136	-.113	-.139	-.167
25	-1.770	-2.541	-3.775	.593	1.004	.500	-.762
26	.905	.901	.230	1.151	.000.000	.869	-.219
27	.578	1.143	.909	1.193	.683	.189	.083
28	.139	.779	.900	.496	.342	.047	.091
29	-.155	.520	.809	.625	.536	.247	.156
30	-.222	.799	.737	.835	.694	.670	-.024
31	.292	1.147	.949	1.223	1.204	.960	0+
32	.327	.879	.777	1.055	1.056	.905	.111
33	.195	.466	.559	.837	.802	.526	.010

$\alpha = 60°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	-5.173	-6.441	-6.655	-.853	-.091	.136	-1.849
2	-5.493	-7.315	-7.371	-2.197	-1.288	-.487	-1.575
3	-5.376	-7.273	-6.942	-2.407	-1.782	-.539	-1.387
4	-4.110	-5.543	-5.349	-2.166	-1.646	-.602	-1.407
5	-3.639	-5.171	-4.842	-2.548	-2.148	-.680	-1.485
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
9	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
10	-2.000	-2.744	-2.331	-1.967	-1.507	-.380	-.278
11	-1.364	-1.889	.000.000	-1.465	-1.141	-.366	-.220
12	-1.389	-1.309	-1.009	-1.063	-.575	-.213	-.232
13	-1.532	-1.248	-1.066	-.848	-.470	-.312	-.358
14	-1.537	-1.227	-1.069	-.951	-.634	.048	-.325
15	-1.147	-2.050	-.272	-.237	.044	.022	-.271
16	-2.103	-2.280	-1.813	-2.269	-1.729	-1.228	-.718
17	-2.292	-2.711	-2.316	-2.952	-2.016	-1.081	-.859
18	-2.310	-2.634	-2.338	-3.272	-2.435	-1.723	-1.156
19	-2.342	-2.409	-2.319	-3.151	-1.909	-1.307	-1.072
20	-1.904	-1.933	-1.894	-2.721	-1.781	-1.043	-.888
21	-1.565	-1.372	-1.302	-1.885	-1.393	-.976	-.807
22	-1.283	-.861	-.788	-1.217	-1.103	-.751	-.827
23	-1.135	-.545	-.503	-.453	-.514	-.599	-.750
24	-.882	-.421	-.417	-.136	-.126	-.147	-.204
25	-2.741	-2.906	-3.732	.683	.982	.677	-.606
26	.007	.497	.257	1.157	.000.000	.503	-.201
27	.158	.989	.919	.829	.621	.147	.049
28	.009	.614	.794	.412	.244	.033	.125
29	-.257	.425	.574	.581	.500	.176	.100
30	-.479	.714	.695	.783	.659	.625	-.108
31	.149	1.042	.750	1.126	1.079	.935	-.070
32	.208	.730	.649	1.187	1.074	.943	.167
33	.103	.219	.456	.790	.754	.426	.082

Table 22. - Continued.

(b) $C_{T,S} = 0.80$, $q_S = 19.97$

$\alpha = 65°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-5.499	-6.767	-6.541	-.991	-.137	-.221	-.470
2	-5.687	-7.652	-7.113	-2.115	-1.240	-.464	-.432
3	-4.968	-6.941	-6.418	-2.291	-1.488	-.273	-.265
4	-4.069	-5.887	-5.277	-2.342	-1.679	-.297	-.196
5	-3.111	-4.920	-4.334	-2.319	-1.741	-.366	-.261
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.652	-2.592	-2.134	-1.870	-1.338	-.255	-.158
11	-1.298	-1.813	*000.000	-1.467	-1.161	-.306	-.196
12	-1.308	-1.251	-1.018	-1.021	-.821	-.270	-.186
13	-1.404	-1.143	-1.086	-.949	-.588	-.374	-.284
14	-1.355	-1.110	-1.027	-.857	-.596	.096	-.263
15	-.890	-1.685	-.190	-.081	.178	.150	-.103
16	-1.851	-2.012	-1.833	-2.075	-1.371	-.837	-.593
17	-2.035	-2.569	-2.453	-2.619	-2.261	-.925	-.774
18	-2.335	-2.488	-2.599	-3.143	-1.984	-1.465	-.951
19	-1.913	-2.252	-2.589	-3.493	-2.686	-1.294	-.934
20	-1.819	-1.654	-2.014	-2.664	-1.730	-.948	-.896
21	-1.159	-1.209	-1.486	-2.017	-1.635	-.874	-.748
22	-.996	-.668	-.761	-.971	-.794	-.634	-.527
23	-.626	-.477	-.445	-.354	-.463	-.383	-.317
24	-.603	-.425	-.415	-.189	-.172	-.253	-.188
25	-3.350	-3.218	-3.709	-.622	1.004	.267	-.467
26	-.233	.371	.305	1.121	*000.000	.152	-.019
27	-.053	.847	.947	.860	.588	.063	.053
28	.048	.586	.873	.476	.330	.061	.238
29	-.202	.344	.529	.534	.460	.153	.098
30	-.234	.688	.816	.784	.614	.606	-.105
31	.217	.930	.719	1.160	1.102	.898	-.089
32	.258	.625	.658	1.101	1.061	.887	.058
33	.126	.247	.654	.812	.765	.487	.176

$\alpha = 70°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-5.682	-7.252	-6.565	-.886	.044	.175	-.273
2	-5.810	-8.069	-7.686	-2.442	-1.191	.084	-.214
3	-4.919	-7.780	-6.948	-2.651	-1.739	-.486	-.478
4	-3.438	-6.071	-5.374	-2.483	-1.619	-.153	-.261
5	-2.589	-4.856	-4.040	-2.160	-1.511	-.214	-.178
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.455	-2.503	-2.087	-1.858	-1.170	-.253	-.227
11	-1.030	-1.563	*000.000	-1.455	-.993	-.254	-.233
12	-1.241	-1.162	-.948	-.980	-.575	-.242	-.305
13	-1.198	-1.050	-.957	-.814	-.396	-.221	-.290
14	-1.093	-1.030	-1.017	-.749	-.401	.089	-.336
15	-.746	-1.719	-.282	-.163	.224	.130	-.171
16	-1.424	-1.732	-1.796	-1.996	-1.385	-.975	-.634
17	-1.576	-2.270	-2.429	-2.381	-1.591	-.830	-.632
18	-1.578	-2.136	-2.556	-2.869	-1.678	-1.213	-1.057
19	-1.330	-1.909	-2.457	-2.577	-1.906	-.750	-.634
20	-1.178	-1.618	-2.223	-2.263	-1.813	-1.139	-.974
21	-1.003	-1.042	-1.803	-1.560	-1.297	-.675	-.599
22	-.993	-.745	-1.108	-1.027	-.882	-.615	-.701
23	-.671	-.415	-.434	-.333	-.368	-.348	-.346
24	-.474	-.419	-.511	-.154	-.037	-.148	-.176
25	-4.331	-4.287	-3.763	.628	1.049	.158	-.411
26	-.757	-.009	.311	1.236	*000.000	.113	.072
27	-.238	.597	.949	.860	.611	.137	.125
28	-.037	.426	.740	.388	.245	.052	.064
29	-.207	.300	.432	.533	.471	.174	.155
30	-.375	.677	.597	.756	.575	.598	-.024
31	.215	.843	.663	1.112	1.087	.884	-.033
32	.192	.650	.664	1.153	1.151	.920	.104
33	.060	.213	.569	.745	.706	.445	.115

$\alpha = 75°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-2.065	-3.591	-4.108	-.853	.100	.377	-.158
2	-1.830	-2.853	-4.261	-1.830	-.704	-.168	-.200
3	-1.679	-2.814	-4.266	-2.048	-1.029	-.021	-.250
4	-2.812	-5.571	-5.031	-2.117	-1.069	-.149	-.240
5	-2.052	-3.935	-4.030	-2.218	-1.352	-.149	-.201
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.051	-.897	-.948	-1.703	-1.007	-.144	-.253
11	-.852	-.871	*000.000	-1.285	-.912	-.305	-.305
12	-.875	-.869	-.924	-.848	-.404	-.245	-.336
13	-.691	-.713	-.786	-.643	-.356	-.102	-.266
14	-.674	-.675	-.673	-.710	-.283	.070	-.342
15	-.607	-1.540	-.253	.030	.096	.046	-.180
16	-1.153	-1.415	-1.584	-1.376	-.949	-.529	-.532
17	-1.055	-1.401	-2.218	-1.753	-1.372	-.673	-.824
18	-1.077	-1.304	-2.400	-1.944	-1.363	-.381	-.498
19	-.997	-1.495	-2.521	-1.837	-1.176	-.868	-.779
20	-.637	-.842	-1.544	-1.760	-1.548	-.724	-.811
21	-.679	-.792	-1.164	-1.092	-.908	-.422	-.488
22	-.634	-.662	-.788	-1.043	-.946	-.720	-.805
23	-.562	-.331	-.412	-.440	-.384	-.347	-.332
24	-.466	-.401	-.258	-.195	-.142	-.202	-.230
25	-4.169	-4.076	-3.126	.568	.913	.184	-.124
26	-.815	-.162	.364	1.160	*000.000	.171	.065
27	-.213	.390	.892	.720	.451	.036	.100
28	-.031	.390	.677	.357	.210	.025	.022
29	-.117	.255	.376	.494	.417	.011	.072
30	-.229	.542	.442	.610	.455	.514	-.121
31	.237	.731	.572	1.087	1.126	.741	-.093
32	.163	.509	.600	1.103	.949	.704	.029
33	.002	.159	.500	.712	.585	.343	-.049

$\alpha = 80°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-1.766	-2.788	-3.581	-.647	.350	-.190	-.081
2	-.817	-2.312	-3.412	-1.660	-.280	-.167	-.203
3	-.682	-1.612	-2.709	-1.927	-.537	-.120	-.128
4	-.787	-1.196	-1.985	-1.954	-.943	-.214	-.261
5	-.687	-.729	-.810	-1.833	-.902	-.169	-.179
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.575	-.543	-.544	-1.458	-.735	-.182	-.171
11	-.632	-.617	*000.000	-1.093	-.654	-.169	-.149
12	-.609	-.630	-.741	-.670	-.493	-.274	-.272
13	-.599	-.470	-.573	-.601	-.436	-.084	-.336
14	-.604	-.523	-.634	-.576	-.348	.086	-.299
15	-.483	-1.644	-.219	.065	.060	.098	-.144
16	-.768	-.905	-.893	-1.350	-1.063	-.688	-.520
17	-.811	-.913	-1.171	-1.830	-1.491	-.696	-.691
18	-.693	-.822	-1.128	-2.045	-1.451	-.798	-.824
19	-.757	-.857	-.985	-1.834	-1.467	-.844	-.797
20	-.607	-.701	-1.062	-1.904	-1.078	-.603	-.654
21	-.550	-.673	-.910	-1.266	-.884	-.521	-.573
22	-.524	-.524	-.559	-.744	-.704	-.420	-.360
23	-.450	-.506	-.478	-.477	-.422	-.289	-.276
24	-.464	-.380	-.336	-.198	-.220	-.216	-.241
25	-1.244	-1.497	-1.626	.796	.967	-.160	-.121
26	-.411	.044	.543	1.094	*000.000	-.112	-.069
27	-.140	.261	.833	.741	.400	-.083	-.035
28	-.044	.265	.693	.346	.234	-.056	.179
29	-.062	.239	.371	.388	.367	.001	.127
30	-.234	.500	.429	.621	.556	.538	-.003
31	.295	.697	.542	1.042	1.027	.860	.051
32	.146	.501	.557	1.038	.967	.865	.157
33	.066	.218	.451	.728	.600	.405	.163

Table 22. - Continued.

(c) $C_{T,S} = 0.60$, $q_s = 22.00$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.418	.335	-.433	-.016	1.138	1.118	.409
2	.067	-.579	-.476	.354	.738	.519	-.020
3	-.259	-.498	-1.224	.274	.245	.236	-.201
4	-.603	-1.400	-1.574	-.409	-.188	-.320	-.539
5	-.845	-1.559	-1.449	-.554	-.591	-.648	-.738
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.661	-1.351	-1.521	-.926	-1.114	-.757	-.840
11	-.437	-1.322	*000.000	-1.071	-1.210	-.974	-.901
12	-1.341	-1.025	-1.017	-.866	-.988	-.801	-.708
13	-.804	-1.024	-.967	-.721	-.884	-.728	-.634
14	-1.024	-1.070	-.947	-.841	-.917	-.168	-.653
15	-.671	-4.998	-1.294	-.127	-1.085	-.059	-.096
16	-1.741	-2.129	-1.923	-1.521	-1.710	-1.618	-1.204
17	-2.713	-3.083	-2.583	-2.324	-2.448	-2.053	-1.840
18	-3.105	-3.420	-3.133	-2.501	-2.496	-2.326	-1.791
19	-3.426	-3.370	-3.216	-2.788	-2.488	-2.327	-1.820
20	-2.853	-2.231	-2.088	-1.852	-1.494	-1.452	-1.458
21	-2.570	-1.499	-1.136	-1.068	-.576	-.806	-.670
22	-1.759	-.881	-.547	-.371	-.392	-.484	-.584
23	-.902	-.553	-.533	-.344	-.395	-.311	-.385
24	-1.040	-.448	-.343	-.346	-.365	-.429	-.400
25	1.085	1.114	.276	.393	.573	.934	.671
26	.722	1.040	.602	.298	*000.000	.515	.488
27	.145	.496	.440	.154	-.146	-.071	.036
28	.088	.286	.343	.208	.078	.088	.096
29	.202	.504	.398	.388	.633	.533	.381
30	.315	.803	.508	.486	.458	.687	.050
31	.738	1.099	.935	.790	.861	1.068	.629
32	.766	1.045	.762	.853	1.177	1.055	1.043
33	.543	.777	.535	.710	.784	.732	.397

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.486	-.251	-1.392	.004	.924	.861	.108
2	-.518	-1.634	-2.330	-.475	.120	-.141	-.764
3	-.694	-1.882	-2.129	-.762	-.305	-.434	-.838
4	-.944	-1.944	-2.113	-.899	-.604	-.847	-1.130
5	-1.102	-1.990	-1.883	-.995	-1.112	-1.227	-1.255
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.945	-1.904	-1.681	-1.084	-1.338	-1.019	-1.138
11	-.914	-1.844	*000.000	-1.139	-1.352	-1.102	-1.014
12	-1.504	-1.103	-1.075	-.932	-1.124	-.908	-.800
13	-.993	-1.138	-1.072	-.815	-1.003	-.820	-.731
14	-1.260	-1.247	-1.083	-.918	-1.040	-.259	-.693
15	-.523	-4.830	-.255	-.090	-.122	-.032	-.121
16	-2.055	-2.310	-1.959	-1.653	-2.009	-1.783	-1.206
17	-3.305	-3.663	-3.005	-2.493	-2.904	-2.305	-1.575
18	-3.859	-3.594	-3.391	-2.851	-3.243	-2.820	-2.009
19	-3.869	-3.422	-3.018	-2.910	-3.208	-2.805	-1.856
20	-3.319	-2.720	-2.052	-2.208	-1.750	-1.433	-1.209
21	-2.327	-1.699	-1.334	-.622	-.703	-.820	-.970
22	-1.001	-1.100	-1.142	-.412	-.431	-.466	-.629
23	-1.188	-.734	-.600	-.381	-.301	-.413	-.487
24	-1.172	-.617	-.498	-.338	-.302	-.392	-.412
25	1.179	.935	-.518	.456	.898	1.325	.983
26	.870	1.098	.592	.555	*000.000	.967	.904
27	.309	.674	.803	.377	.210	.249	.288
28	.181	.530	.665	.421	.200	.269	.191
29	.186	.547	.525	.809	.630	.572	.370
30	.254	.746	.617	.707	.748	.720	.044
31	.646	1.113	.965	1.070	1.233	1.195	.583
32	.676	.954	.745	.994	1.095	1.039	.910
33	.504	.734	.528	.736	.815	.713	.379

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.081	-1.391	-2.943	-.535	.416	.410	-.498
2	-1.057	-2.402	-3.274	-1.130	-.535	-.710	-1.314
3	-1.300	-2.678	-3.321	-1.255	-1.007	-1.203	-1.643
4	-1.692	-2.933	-3.515	-1.565	-1.530	-1.661	-1.999
5	-1.808	-2.902	-2.734	-1.429	-1.678	-1.677	-1.713
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.155	-1.763	-1.938	-1.273	-1.689	-1.273	-1.434
11	-1.065	-1.523	*000.000	-1.259	-1.567	-1.299	-1.140
12	-1.579	-1.139	-1.098	-.949	-1.208	-.980	-.850
13	-1.119	-1.147	-.971	-.812	-1.003	-.880	-.779
14	-1.678	-1.363	-1.059	-.973	-1.184	-.348	-.858
15	-.635	-3.211	-.263	-.062	-.175	-.068	-.041
16	-2.839	-2.800	-2.141	-2.065	-2.535	-2.320	-1.417
17	-3.739	-3.851	-2.435	-2.728	-3.029	-2.739	-1.867
18	-4.245	-4.001	-2.865	-2.888	-3.398	-3.196	-1.981
19	-3.950	-3.791	-2.848	-3.019	-3.215	-2.717	-1.853
20	-3.332	-2.922	-1.970	-2.196	-2.185	-1.806	-1.589
21	-2.243	-2.141	-1.112	-.951	-1.188	-1.098	-1.043
22	-1.742	-1.069	-.521	-.442	-.408	-.522	-.639
23	-1.233	-.649	-.393	-.441	-.304	-.449	-.584
24	-1.240	-.595	-.350	-.398	-.367	-.486	-.535
25	.437	.323	-1.332	.518	.804	1.220	.613
26	.984	1.062	.495	.751	*000.000	1.109	.847
27	.529	.442	.744	.679	.515	.427	.397
28	.231	.608	.718	.516	.350	.307	.100
29	.136	.586	.601	.658	.631	.591	.370
30	.098	.866	.777	.886	.949	.855	.113
31	.482	.982	.897	1.116	1.140	1.118	.357
32	.567	.914	.749	1.039	1.080	1.026	.871
33	.461	.750	.541	.836	.886	.754	.418

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.576	-2.438	-4.337	-1.124	-.215	-.180	-1.452
2	-1.701	-3.615	-5.102	-1.923	-1.383	-1.480	-2.260
3	-1.947	-3.792	-4.928	-2.169	-2.012	-1.939	-2.460
4	-2.057	-3.888	-4.580	-2.172	-2.137	-2.193	-2.582
5	-2.022	-3.526	-3.769	-2.005	-2.307	-2.361	-2.331
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.346	-2.051	-2.342	-1.618	-2.024	-1.547	-1.771
11	-1.173	-1.712	*000.000	-1.501	-1.861	-1.514	-1.240
12	-1.717	-1.240	-1.185	-1.084	-1.363	-1.064	-.923
13	-1.232	-1.229	-1.050	-.871	-1.106	-.910	-.744
14	-1.737	-1.504	-1.055	-.983	-1.139	-.361	-.760
15	-.943	-4.775	-.269	-.025	-.139	-.126	-.019
16	-2.708	-2.634	-1.921	-1.932	-2.421	-2.397	-1.352
17	-3.470	-3.786	-2.519	-2.813	-3.294	-2.940	-1.905
18	-3.955	-4.254	-3.041	-3.260	-3.835	-3.278	-2.234
19	-3.951	-3.929	-2.640	-3.128	-3.256	-3.352	-2.260
20	-3.150	-3.431	-1.786	-2.494	-2.698	-2.343	-1.842
21	-2.166	-1.763	-1.032	-1.480	-1.263	-1.350	-1.139
22	-1.744	-.907	-.465	-.471	-.449	-.677	-.843
23	-1.516	-.788	-.502	-.505	-.332	-.436	-.491
24	-1.513	-.717	-.412	-.529	-.327	-.506	-.502
25	.716	-.243	-2.094	.311	.949	1.150	.240
26	1.173	1.048	.449	1.009	*000.000	1.318	.550
27	.728	1.052	.914	.928	.782	.625	.420
28	.324	.713	.828	.630	.527	.424	.311
29	.150	.621	.659	.711	.722	.615	.449
30	.024	.742	.722	.859	.831	.761	.120
31	.412	.971	.952	1.143	1.236	1.131	.438
32	.556	.930	.880	1.152	1.207	1.101	.987
33	.541	.771	.699	.926	1.012	.832	.410

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.324	-3.855	-5.791	-1.484	-.742	-.522	-2.311
2	-2.573	-5.248	-6.828	-2.767	-2.684	-2.015	-3.016
3	-2.897	-5.578	-7.046	-3.393	-3.100	-2.698	-3.502
4	-2.945	-5.301	-6.146	-2.719	-2.711	-2.562	-2.863
5	-2.325	-3.849	-4.489	-2.482	-2.886	-2.675	-2.590
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.545	-2.391	-2.707	-1.987	-2.321	-1.679	-1.797
11	-1.224	-1.721	*000.000	-1.604	-1.929	-1.456	-1.153
12	-1.852	-1.389	-1.220	-1.220	-1.421	-1.114	-.938
13	-1.496	-1.283	-1.078	-.943	-1.151	-.855	-.688
14	-2.265	-1.425	-1.120	-1.048	-1.214	-.346	-.739
15	-1.200	-4.744	-.238	.021	-.101	-.140	-.022
16	-3.002	-2.834	-2.183	-2.091	-2.507	-2.355	-1.350
17	-3.800	-4.005	-2.497	-2.991	-3.332	-2.842	-1.818
18	-3.648	-4.217	-2.899	-3.179	-3.433	-3.538	-2.134
19	-3.063	-4.239	-2.552	-3.254	-3.385	-3.309	-2.150
20	-2.347	-3.518	-1.779	-2.501	-2.705	-2.869	-2.013
21	-2.265	-2.269	-.906	-1.317	-1.167	-1.936	-1.320
22	-1.925	-1.041	-.570	-.538	-.470	-.969	-.976
23	-1.743	-.769	-.447	-.432	-.386	-.456	-.544
24	-1.215	-.739	-.443	-.441	-.419	-.449	-.475
25	.361	-1.379	-3.193	.209	.953	1.127	-.750
26	1.047	.467	.279	1.087	*000.000	1.294	.444
27	.841	1.042	.888	1.048	.926	.684	.308
28	.449	.779	.854	.718	.609	.420	.293
29	.138	.701	.781	.809	.809	.621	.375
30	-.088	.833	.835	.968	.949	.832	.125
31	.885	1.055	1.046	1.307	1.355	1.252	.320
32	.539	1.044	.970	1.365	1.343	1.200	.949
33	.448	.766	.718	.924	.962	.760	.237

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.074	-5.263	-7.300	-2.198	-1.418	-.739	-2.823
2	-3.149	-6.275	-8.009	-3.672	-2.933	-2.213	-3.047
3	-3.308	-6.242	-7.548	-3.722	-3.592	-2.717	-3.160
4	-3.228	-5.490	-6.447	-3.580	-3.489	-2.916	-2.840
5	-2.711	-4.394	-5.007	-3.052	-3.412	-2.956	-2.585
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.735	-2.581	-2.847	-2.262	-2.403	-1.630	-1.491
11	-1.476	-2.040	*000.000	-1.899	-2.139	-1.286	-.908
12	-1.866	-1.428	-1.247	-1.201	-1.409	-.813	-.711
13	-1.443	-1.478	-1.202	-1.030	-1.229	-.797	-.694
14	-2.406	-1.516	-1.243	-1.103	-1.245	-.310	-.715
15	-1.495	-4.844	-.309	-.060	-.179	-.102	-.089
16	-3.145	-2.980	-2.184	-2.134	-2.449	-2.062	-1.040
17	-3.934	-4.169	-2.567	-3.098	-3.439	-2.752	-1.880
18	-3.824	-4.533	-3.109	-3.304	-3.813	-3.265	-1.820
19	-3.308	-4.234	-2.822	-3.325	-3.498	-3.007	-1.933
20	-2.622	-3.233	-2.214	-2.269	-2.241	-2.413	-1.851
21	-2.747	-2.054	-1.513	-1.389	-1.501	-1.655	-1.287
22	-2.425	-1.432	-.930	-.561	-.622	-1.393	-1.276
23	-2.110	-.855	-.504	-.397	-.496	-.470	-.804
24	-1.759	-.749	-.498	-.433	-.527	-.524	-.460
25	-.008	-2.149	-3.392	-.053	.828	.969	-1.391
26	1.017	.915	.040	1.244	*000.000	1.283	-.014
27	.747	1.147	1.003	1.398	1.206	.931	.212
28	.441	.884	.949	.842	.681	.496	.290
29	.079	.713	.788	.871	.704	.603	.379
30	-.365	.918	.886	1.071	.901	.888	.080
31	.517	1.095	1.016	1.321	1.308	1.250	.218
32	.445	1.074	.932	1.276	1.326	1.217	.821
33	.393	.738	.675	1.020	.949	.750	.141

Table 22.- Continued.

(c) $C_{T,S} = 0.60$, $q_S = 22.00$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-6.941	-8.766	-8.927	-3.150	-2.095	-1.064	-2.823
2	-3.855	-7.347	-8.948	-4.268	-3.482	-2.585	-2.931
3	-3.880	-6.984	-8.051	-4.110	-3.704	-2.616	-2.261
4	-3.492	-5.780	-6.673	-3.857	-3.591	-2.496	-1.958
5	-3.007	-4.914	-5.626	-3.558	-3.005	-2.826	-1.901
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.825	-2.641	-2.895	-2.580	-2.408	-1.233	-.878
11	-1.467	-1.954	*000.000	-1.971	-1.926	-.931	-.671
12	-1.826	-1.456	-1.257	-1.340	-1.419	-.684	-.626
13	-1.913	-1.405	-1.152	-1.089	-1.172	-.651	-.578
14	-2.476	-1.498	-1.193	-1.130	-1.165	-.210	-.631
15	-1.423	-4.728	-.185	-.132	-.160	-.196	-.217
16	-3.129	-2.984	-2.152	-2.320	-2.599	-1.943	-1.014
17	-3.129	-4.201	-2.717	-3.323	-3.563	-2.500	-1.707
18	-3.498	-4.114	-2.811	-3.337	-3.641	-2.626	-1.675
19	-2.600	-4.218	-2.668	-3.311	-3.674	-2.784	-1.642
20	-2.720	-3.228	-1.953	-2.488	-2.588	-2.243	-1.677
21	-2.547	-2.368	-1.547	-1.397	-2.192	-1.951	-1.529
22	-2.393	-1.507	-.875	-.833	-.870	-1.443	-1.508
23	-2.108	-.684	-.473	-.560	-.559	-.588	-.893
24	-1.717	-.442	-.411	-.514	-.575	-.369	-.472
25	-.576	-3.316	-5.141	-.302	.706	1.001	-1.847
26	.368	.476	-.087	1.200	*000.000	1.279	-.140
27	.895	1.030	.894	1.231	1.132	.760	.187
28	.466	.945	1.037	.784	.738	.477	.308
29	.055	.731	.816	.769	.756	.564	.302
30	-.493	.843	.844	.946	.864	.823	-.196
31	.273	1.205	1.106	1.404	1.453	1.316	.142
32	.447	1.024	.895	1.190	1.239	1.117	.631
33	.422	.786	.750	.975	1.014	.772	.171

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.885	-7.744	-9.650	-3.485	-2.244	-.910	-1.963
2	-4.839	-8.660	-10.113	-4.906	-4.002	-2.504	-1.733
3	-4.007	-8.043	-9.165	-4.830	-4.215	-2.833	-1.926
4	-4.302	-6.985	-7.955	-4.863	-4.181	-3.008	-1.823
5	-3.529	-5.510	-5.947	-4.079	-3.870	-2.575	-1.295
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-2.106	-3.037	-3.070	-2.903	-2.506	-1.137	-.757
11	-1.664	-2.133	*000.000	-2.136	-2.052	-.865	-.658
12	-1.737	-1.402	-1.169	-1.288	-1.224	-.553	-.507
13	-2.035	-1.441	-1.172	-1.118	-1.051	-.588	-.549
14	-2.281	-1.507	-1.226	-1.195	-1.007	-.184	-.587
15	-1.454	-4.630	-.224	-.209	-.124	-.141	-.249
16	-2.686	-2.741	-2.015	-2.447	-2.401	-1.374	-.816
17	-2.849	-3.999	-2.764	-3.363	-3.583	-1.962	-1.160
18	-2.843	-3.920	-2.855	-3.581	-3.644	-1.952	-1.367
19	-2.702	-4.023	-2.739	-3.743	-4.037	-2.050	-1.522
20	-2.246	-2.679	-2.014	-2.603	-2.909	-1.626	-1.431
21	-2.395	-1.986	-1.443	-1.638	-2.133	-1.173	-.820
22	-2.053	-1.266	-.934	-.727	-.922	-1.073	-1.061
23	-2.066	-.604	-.510	-.610	-.685	-.725	-.816
24	-1.583	-.588	-.549	-.456	-.530	-.467	-.521
25	-1.245	-4.422	-6.306	-.917	.413	.696	-1.817
26	.856	.245	-.364	1.194	*000.000	1.200	-.234
27	.875	.998	.861	1.195	1.127	.722	.145
28	.430	.961	1.023	.776	.717	.364	.227
29	.002	.778	.900	.866	.770	.515	.300
30	-.412	.934	.887	1.024	.891	.821	-.034
31	.198	1.139	1.000	1.297	1.358	1.158	.045
32	.386	1.003	.869	1.154	1.186	1.007	.345
33	.342	.758	.722	.922	.884	.554	-.002

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-4.763	-9.307	-11.052	-4.355	-2.962	-1.311	-.717
2	-5.769	-9.654	-10.979	-5.479	-4.348	-2.701	-1.990
3	-5.531	-9.233	-9.994	-5.585	-4.726	-2.806	-1.611
4	-4.395	-7.104	-7.749	-4.918	-4.172	-2.453	-1.583
5	-3.609	-5.561	-5.765	-4.072	-3.776	-1.901	-1.622
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-2.085	-3.084	-3.093	-2.983	-2.569	-1.318	-.924
11	-1.637	-2.050	*000.000	-2.043	-1.918	-.991	-.361
12	-1.792	-1.445	-1.243	-1.404	-1.190	-.560	-.419
13	-1.760	-1.385	-1.168	-1.092	-.952	-.411	-.414
14	-1.919	-1.473	-1.262	-1.233	-1.155	-.133	-.460
15	-1.310	-4.373	-.200	-.130	.013	.191	-.143
16	-2.258	-2.740	-2.043	-2.621	-2.429	-1.440	-.911
17	-2.554	-3.747	-2.977	-3.372	-3.353	-1.530	-1.163
18	-2.317	-3.461	-2.752	-3.457	-3.403	-1.551	-1.290
19	-2.404	-3.378	-2.626	-3.807	-3.896	-1.532	-1.067
20	-1.949	-2.175	-1.865	-2.674	-2.802	-1.838	-1.823
21	-2.001	-1.851	-1.556	-2.156	-2.583	-1.007	-.993
22	-1.674	-1.242	-1.059	-1.070	-1.866	-1.161	-1.054
23	-1.557	-.602	-.543	-.566	-.722	-.662	-.660
24	-1.404	-.629	-.587	-.507	-.421	-.362	-.426
25	-2.008	-5.282	-7.365	-1.280	.203	.332	-1.634
26	.681	.084	-.515	1.088	*000.000	1.023	-.087
27	.784	1.009	.882	1.268	1.172	.659	.288
28	.408	1.060	1.132	.893	.793	.393	.411
29	-.089	.705	.815	.821	.685	.476	.316
30	-.402	.930	.854	.982	.777	.745	-.030
31	.228	1.139	.922	1.271	1.251	1.040	.021
32	.359	.981	.864	1.344	1.229	1.055	.588
33	.259	.513	.619	.923	.779	.466	.118

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-4.963	-9.736	-10.995	-4.872	-3.032	-1.480	-.524
2	-5.738	-10.071	-11.229	-6.010	-4.694	-2.222	-.638
3	-5.819	-10.053	-10.922	-6.253	-5.304	-2.147	-.466
4	-4.766	-7.822	-8.280	-5.395	-4.591	-1.710	-.405
5	-3.888	-6.029	-6.123	-4.413	-4.002	-1.399	-.551
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-2.165	-3.221	-3.200	-3.164	-2.694	-1.521	-.437
11	-1.407	-1.677	*000.000	-1.965	-1.826	-1.422	-.392
12	-1.808	-1.413	-1.225	-1.411	-1.168	-.295	-.391
13	-1.451	-1.232	-1.132	-1.087	-.910	-.283	-.531
14	-1.459	-1.276	-1.184	-1.321	-1.181	-.036	-.636
15	-1.258	-4.265	-.230	-.225	-.133	.097	-.274
16	-2.215	-2.489	-2.152	-2.799	-2.333	-.935	-.900
17	-1.968	-3.199	-2.721	-3.728	-3.379	-.838	-1.084
18	-1.908	-2.854	-2.741	-3.824	-3.471	-.791	-.799
19	-1.972	-2.847	-2.785	-4.037	-3.891	-.910	-1.148
20	-1.449	-1.968	-2.031	-3.522	-2.652	-.787	-.789
21	-1.537	-1.544	-1.536	-2.273	-2.365	-.789	-1.052
22	-1.199	-1.060	-.915	-1.423	-1.531	-.633	-.587
23	-1.148	-.563	-.490	-.482	-.576	-.580	-.617
24	-1.165	-.576	-.454	-.351	-.236	-.383	-.416
25	-2.143	-5.865	-7.072	-1.736	.056	-.123	-.816
26	.435	-.108	-.604	1.116	*000.000	.559	-.120
27	.495	.999	.723	1.112	1.272	.515	.225
28	.221	.976	1.067	.936	.734	.379	.399
29	-.132	.593	.766	.788	.626	.449	.305
30	-.218	.972	.898	1.028	.785	.787	.024
31	.248	1.217	.997	1.388	1.363	1.147	.169
32	.342	.823	.803	1.213	1.154	1.006	.426
33	.323	.457	.828	1.124	.906	.580	.217

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-6.203	-11.095	-12.326	-5.626	-3.707	-1.322	-.440
2	-5.990	-10.918	-11.745	-6.365	-4.710	-1.629	-.426
3	-5.461	-10.157	-10.756	-6.393	-5.037	-1.289	-.297
4	-4.566	-8.542	-9.185	-6.029	-5.295	-1.260	-.472
5	-3.400	-6.175	-6.210	-4.474	-4.006	-.968	-.402
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.930	-3.208	-3.378	-3.240	-2.591	-.424	-.370
11	-1.271	-1.854	*000.000	-2.051	-1.804	-.379	-.396
12	-2.012	-1.380	-1.384	-1.568	-1.303	-.470	-.559
13	-1.460	-1.172	-1.208	-1.182	-.845	-.269	-.519
14	-1.437	-1.170	-1.264	-1.343	-1.013	.004	-.677
15	-1.213	-4.224	-.341	-.295	-.010	.123	-.151
16	-1.239	-1.514	-1.353	-2.529	-2.193	-.864	-.736
17	-1.071	-1.390	-1.336	-3.158	-2.797	-.803	-.685
18	-1.083	-1.345	-1.302	-3.802	-3.547	-1.023	-1.044
19	-1.109	-1.397	-1.290	-4.418	-4.036	-.934	-1.059
20	-.967	-1.029	-.960	-2.744	-2.680	-.796	-1.019
21	-.975	-1.010	-.976	-2.320	-2.485	-.913	-.912
22	-.865	-.825	-.854	-1.294	-1.449	-.728	-.734
23	-.848	-.815	-.832	-.715	-.581	-.573	-.651
24	-.792	-.661	-.808	-.283	-.435	-.473	-.473
25	-1.947	-2.720	-3.045	-1.732	-.196	-.298	-.553
26	.120	.364	.313	1.011	*000.000	.305	-.103
27	.254	.953	.950	1.252	1.240	.238	.178
28	.147	.833	1.056	.879	.759	.335	.393
29	-.080	.583	.780	.771	.643	.472	.379
30	0.	.893	.775	.938	.704	.727	.021
31	.348	1.128	.874	1.256	1.248	.971	.033
32	.459	.785	.785	1.332	1.196	.927	.431
33	.230	.343	.675	.935	.776	.515	.107

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.356	-2.980	-3.352	-4.878	-3.789	-1.358	-.513
2	-1.857	-1.993	-1.957	-5.757	-5.009	-1.454	-.510
3	-1.277	-1.408	-1.072	-5.937	-5.351	-1.035	-.369
4	-.953	-.726	-.616	-4.788	-4.809	-.580	-.521
5	-.929	-.762	-.676	-3.886	-4.160	-.677	-.762
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-.750	-.686	-.681	-2.668	-2.742	-.497	-.474
11	-.695	-.687	*000.000	-1.598	-1.777	-.404	-.427
12	-.599	-.645	-.611	-1.123	-.960	-.299	-.418
13	-.643	-.634	-.542	-.864	-.888	-.339	-.542
14	-.620	-.642	-.580	-1.072	-1.073	.060	-.572
15	-.507	-3.942	-.031	-.162	-.147	.060	-.176
16	-1.088	-1.320	-1.209	-2.170	-2.422	-.849	-.890
17	-.926	-1.272	-1.288	-2.948	-3.096	-.962	-1.014
18	-.935	-1.188	-1.229	-2.396	-2.969	-.784	-.783
19	-.908	-1.279	-.867	-2.103	-2.965	-.688	-.829
20	-.756	-.811	-.760	-1.583	-2.089	-.652	-.800
21	-.885	-.842	-.744	-1.795	-2.080	-.928	-.809
22	-.888	-.725	-.687	-1.312	-1.216	-.671	-.643
23	-.803	-.643	-.635	-.588	-.423	-.579	-.591
24	-.814	-.562	-.537	-.485	-.180	-.307	-.312
25	-1.508	-1.892	-2.322	-1.983	-.267	-.676	-.529
26	-.085	.434	.475	.925	*000.000	-.062	-.194
27	.127	.742	1.016	1.236	1.209	-.036	.070
28	.130	.534	.925	.768	.620	.323	.282
29	.084	.443	.655	.633	.523	.397	.333
30	-.042	.778	.825	.803	.596	.582	.066
31	.369	.968	.746	1.273	1.249	.805	.068
32	.352	.689	.718	1.221	1.127	.826	.392
33	.191	.295	.599	.779	.621	.407	.154

Table 22.- Continued.

(d) $C_{T,s} = 0.30$, $q_s = 18.89$

$\alpha = 5°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.765	.431	-.183	.147	.826	.738	.436
2	.831	-.508	-.591	-.500	.042	-.163	-.424
3	-.272	-1.018	-1.414	-1.107	-.529	-.495	-.714
4	-.743	-1.384	-1.673	-1.102	-.876	-.982	-1.131
5	-1.050	-1.820	-2.096	-1.509	-1.386	-1.359	-1.398
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.039	-1.628	-2.094	-1.796	-1.579	-1.335	-1.633
11	-1.048	-1.955	*000.000	-1.574	-1.637	-1.410	-1.307
12	-1.044	-1.264	-1.238	-.994	-1.288	-1.131	-1.066
13	-1.066	-1.401	-1.325	-1.032	-1.170	-1.079	-1.018
14	-1.263	-1.382	-1.239	-1.031	-1.046	-.097	-.894
15	-.948	-.147	-.397	-.210	-.242	-.187	-.193
16	-2.348	-2.475	-2.492	-2.067	-2.333	-2.219	-1.625
17	-3.304	-4.056	-3.301	-2.792	-2.912	-2.520	-2.087
18	-3.844	-4.215	-3.815	-3.068	-2.930	-2.749	-2.353
19	-3.770	-4.215	-3.573	-2.855	-2.818	-2.814	-2.126
20	-3.547	-3.537	-2.836	-2.415	-1.638	-1.889	-1.879
21	-2.550	-2.625	-1.931	-1.232	-.508	-1.043	-1.113
22	-1.766	-1.189	-1.068	-.616	-.520	-.530	-.809
23	-1.229	-.816	-.579	-.508	-.455	-.442	-.571
24	-1.089	-.621	-.486	-.382	-.344	-.411	-.516
25	.965	1.020	.499	.478	1.204	1.057	.915
26	.617	.442	.584	.533	*000.000	.805	.778
27	.108	.420	.344	.232	.149	.206	.231
28	.005	.259	.330	.284	.179	.204	.183
29	.114	.484	.408	.455	.581	.572	.414
30	.244	.605	.598	.515	.687	.734	0.
31	.598	1.039	.916	.864	1.055	1.049	.820
32	.661	.992	.777	.884	1.064	1.021	1.006
33	.468	.746	.552	.680	.756	.706	.419

$\alpha = 10°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.125	-.584	-1.569	-.971	.135	.020	-.411
2	-.766	-1.755	-2.432	-1.919	-1.019	-1.085	-1.281
3	-.922	-1.936	-2.563	-1.931	-1.488	-1.517	-1.671
4	-1.334	-2.342	-2.841	-2.303	-1.936	-1.925	-2.023
5	-1.446	-2.367	-2.708	-2.216	-2.179	-2.131	-2.126
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.256	-1.922	-2.291	-2.201	-1.983	-1.591	-1.750
11	-1.162	-1.682	*000.000	-1.760	-1.945	-1.720	-1.676
12	-1.884	-1.190	-1.173	-.937	-1.386	-1.198	-1.140
13	-1.097	-1.266	-1.103	-.934	-1.197	-1.080	-.980
14	-1.481	-1.314	-1.056	-1.064	-1.208	-.177	-.969
15	-.675	-.279	-.395	-.242	-.306	-.163	-.205
16	-2.506	-2.736	-1.932	-2.108	-2.383	-2.191	-1.577
17	-3.568	-4.040	-2.710	-2.990	-3.119	-2.764	-2.189
18	-3.960	-3.927	-2.906	-3.489	-3.365	-3.123	-2.460
19	-4.069	-4.444	-3.287	-3.453	-3.028	-3.175	-2.061
20	-2.731	-2.890	-1.676	-2.393	-2.050	-2.094	-1.379
21	-2.037	-1.823	-.978	-1.293	-.892	-.937	-1.060
22	-1.714	-1.108	-.725	-.695	-.503	-.442	-.740
23	-1.437	-.855	-.503	-.500	-.485	-.469	-.601
24	-1.318	-.842	-.466	-.417	-.395	-.422	-.499
25	.941	.760	-.153	.192	1.265	1.123	.892
26	.648	1.049	.827	.573	*000.000	1.095	.982
27	.321	.595	.542	.563	.569	.587	.502
28	.177	.454	.335	.475	.457	.461	.359
29	.124	.509	.488	.587	.604	.650	.514
30	.130	.829	.704	.807	.814	.846	-.081
31	.526	1.006	.935	1.102	1.121	1.110	.879
32	.591	.955	.702	1.099	1.085	1.026	.989
33	.441	.741	.474	.802	.807	.753	.507

$\alpha = 15°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-.586	-2.030	-3.290	-2.350	-.918	-.887	-1.401
2	-1.613	-3.316	-4.313	-3.510	-2.246	-2.388	-2.630
3	-1.848	-3.558	-4.267	-3.338	-2.796	-2.750	-3.009
4	-1.922	-3.402	-4.060	-3.404	-3.097	-3.046	-3.219
5	-1.880	-3.021	-3.432	-3.034	-3.075	-2.948	-2.902
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.474	-2.191	-2.575	-2.556	-2.366	-2.048	-2.031
11	-1.277	-1.693	*000.000	-1.935	-2.232	-1.996	-1.956
12	-1.818	-1.267	-1.249	-1.018	-1.483	-1.318	-1.257
13	-1.172	-1.306	-1.174	-1.033	-1.361	-1.177	-1.084
14	-1.757	-1.355	-1.135	-1.116	-1.300	-.207	-1.077
15	-.895	-.353	-.218	-.104	-.253	-.230	-.260
16	-2.566	-2.614	-2.016	-2.272	-2.546	-2.417	-1.684
17	-3.125	-3.500	-2.491	-2.917	-3.130	-2.654	-1.990
18	-2.917	-3.933	-2.990	-3.670	-3.720	-3.471	-2.638
19	-2.193	-3.503	-2.575	-3.040	-2.930	-3.055	-1.880
20	-2.174	-2.930	-2.121	-2.294	-2.113	-2.359	-1.536
21	-1.993	-1.797	-1.023	-1.570	-1.316	-1.084	-.998
22	-1.779	-.955	-.758	-.579	-.505	-.768	-.984
23	-1.574	-.887	-.574	-.535	-.519	-.589	-.740
24	-1.338	-.748	-.426	-.473	-.369	-.348	-.538
25	.717	.137	-1.326	-.379	1.124	.739	.362
26	.473	.926	.402	.702	*000.000	1.139	.926
27	.516	.868	.700	.823	.808	.844	.674
28	.238	.594	.676	.653	.596	.554	.417
29	.128	.594	.820	.732	.775	.724	.566
30	.062	.780	.772	.926	.898	.866	0.
31	.467	1.014	.928	1.241	1.231	1.184	.853
32	.528	.937	.775	1.130	1.126	1.053	.979
33	.399	.688	.563	.879	.836	.710	.465

$\alpha = 20°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-1.585	-3.721	-5.395	-3.344	-2.299	-2.423	-3.077
2	-2.460	-4.589	-5.930	-4.403	-3.520	-3.747	-4.128
3	-2.723	-4.974	-6.043	-4.748	-4.339	-4.152	-4.279
4	-2.787	-4.577	-5.440	-4.471	-4.239	-4.377	-4.466
5	-2.491	-4.019	-4.743	-3.845	-4.085	-4.034	-3.983
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.679	-2.526	-2.975	-3.358	-2.683	-2.408	-2.301
11	-1.402	-2.008	*000.000	-2.109	-2.405	-2.190	-2.128
12	-2.201	-1.504	-1.486	-1.296	-1.724	-1.599	-1.502
13	-1.731	-1.490	-1.314	-1.113	-1.429	-1.387	-1.248
14	-2.250	-1.444	-1.223	-1.097	-1.301	-.484	-1.055
15	-1.337	-.517	-.277	-.141	-.265	-.363	-.227
16	-3.059	-3.112	-2.443	-2.293	-2.638	-2.702	-1.842
17	-3.237	-4.055	-3.037	-2.991	-3.270	-3.097	-2.142
18	-2.902	-4.151	-3.171	-3.310	-3.390	-3.465	-2.517
19	-2.593	-4.259	-3.291	-3.211	-3.266	-3.568	-2.183
20	-2.275	-3.366	-2.260	-2.120	-2.067	-2.610	-1.556
21	-2.230	-2.204	-1.549	-1.393	-1.012	-1.694	-1.229
22	-2.038	-1.178	-.893	-.813	-.724	-.871	-.895
23	-1.668	-.865	-.524	-.424	-.344	-.421	-.615
24	-1.757	-.896	-.525	-.487	-.382	-.692	-.768
25	.171	-1.006	-2.450	-.930	-.512	.137	-.580
26	.931	.868	.329	.973	*000.000	1.192	.693
27	.673	.956	.926	.956	1.169	1.044	.756
28	.332	.696	.771	.971	.737	.630	.464
29	.134	.629	.682	.781	.790	.677	.584
30	-.055	.814	.842	.901	.946	.814	-.042
31	.375	1.180	1.126	1.513	1.440	1.297	.743
32	.492	.996	.975	1.302	1.281	1.128	.969
33	.385	.715	.675	1.019	1.007	.789	.441

Table 22. - Concluded.

(d) $C_{T,s} = 0.30$, $q_s = 18.89$

$\alpha = 25°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-2.660	-5.469	-7.248	-4.935	-3.983	-3.865	-5.232
2	-3.550	-6.320	-8.290	-6.082	-5.132	-5.079	-5.496
3	-3.640	-6.326	-7.888	-6.297	-5.927	-5.480	-5.756
4	-3.519	-5.982	-6.941	-5.800	-5.548	-5.450	-5.471
5	-3.080	-4.941	-5.774	-4.882	-3.917	-4.657	-4.396
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.924	-2.993	-3.520	-3.882	-3.285	-2.869	-2.770
11	-1.569	-2.254	*000.000	-2.354	-2.713	-2.345	-2.160
12	-2.309	-1.596	-1.561	-1.331	-1.837	-1.568	-1.340
13	-2.525	-1.722	-1.527	-1.360	-1.639	-1.487	-1.264
14	-2.422	-1.645	-1.473	-1.251	-1.347	-.359	-.908
15	-1.473	-.575	-.348	-.180	-.319	-.315	-.190
16	-3.016	-3.222	-2.502	-2.388	-2.646	-2.679	-1.754
17	-3.247	-4.398	-3.115	-3.096	-3.324	-2.994	-2.037
18	-2.886	-4.609	-3.336	-3.135	-3.339	-3.676	-2.383
19	-2.686	-4.442	-3.223	-3.070	-3.469	-3.557	-2.084
20	-2.567	-3.640	-2.371	-2.197	-2.131	-2.561	-1.811
21	-2.338	-2.500	-1.685	-1.333	-1.127	-1.468	-1.176
22	-2.140	-1.448	-.973	-.941	-.588	-.907	-.903
23	-2.053	-1.117	-.646	-.481	-.445	-.493	-.804
24	-1.737	-.884	-.513	-.438	-.353	-.462	-.586
25	-.558	-2.490	-4.099	-1.548	-.279	-.447	-2.314
26	.841	.560	.074	1.145	*000.000	1.178	.265
27	.782	.938	.774	1.265	1.224	1.058	.650
28	.362	.749	.816	.890	.868	.706	.520
29	.088	.646	.721	.841	.860	.733	.583
30	-.412	.812	.894	1.082	.994	.934	.001
31	.297	1.219	1.173	1.602	1.543	1.444	.652
32	.491	1.039	.917	1.342	1.307	1.176	.807
33	.321	.693	.575	.999	.978	.790	.447

$\alpha = 30°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-3.558	-7.243	-9.233	-5.857	-4.652	-3.726	-5.404
2	-4.498	-8.061	-9.728	-7.143	-6.395	-5.636	-5.974
3	-4.648	-8.262	-9.700	-7.404	-7.011	-5.909	-5.861
4	-4.416	-8.585	-7.803	-6.293	-6.040	-5.460	-5.148
5	-3.430	-5.842	-5.533	-5.419	-5.519	-4.816	-4.334
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.956	-3.063	-3.566	-4.079	-3.319	-2.736	-2.518
11	-1.441	-2.177	*000.000	-2.297	-2.629	-1.981	-1.770
12	-2.290	-1.607	-1.544	-1.446	-1.753	-1.353	-1.204
13	-2.527	-1.691	-1.441	-1.288	-1.514	-1.162	-.949
14	-2.248	-1.703	-1.340	-1.262	-1.337	-.343	-.857
15	-1.531	-.803	-.322	-.194	-.292	-.246	-.091
16	-2.548	-3.116	-2.321	-2.508	-2.671	-2.311	-1.488
17	-2.963	-4.647	-3.185	-3.433	-3.982	-3.018	-2.069
18	-2.431	-4.408	-3.133	-3.048	-3.513	-3.542	-2.423
19	-2.670	-4.769	-3.161	-3.240	-3.652	-3.564	-2.380
20	-2.579	-3.687	-2.292	-2.331	-2.108	-2.525	-1.993
21	-2.426	-2.544	-1.706	-1.500	-1.337	-1.644	-1.492
22	-2.327	-1.794	-1.211	-.908	-.557	-.863	-1.260
23	-2.001	-1.006	-.596	-.477	-.388	-.533	-.880
24	-1.618	-.725	-.515	-.454	-.393	-.448	-.493
25	-1.237	-3.742	-5.323	-2.191	-.886	-.727	-3.433
26	.736	.257	-.194	1.018	*000.000	1.201	-.113
27	.676	.963	.746	1.507	1.498	1.302	.560
28	.538	.923	1.031	1.054	1.035	.813	.506
29	.193	.812	.923	.997	.994	.839	.665
30	-.317	.952	1.051	1.214	1.100	.989	.065
31	.207	1.183	1.088	1.532	1.528	1.401	.543
32	.416	1.018	.951	1.334	1.325	1.178	.793
33	.431	.717	.742	1.120	1.114	.859	.389

$\alpha = 35°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-4.577	-8.950	-10.874	-6.877	-5.479	-4.175	-5.884
2	-6.144	-10.632	-12.473	-9.101	-8.030	-6.641	-6.581
3	-5.093	-9.740	-11.327	-8.900	-8.177	-6.834	-6.429
4	-4.644	-7.721	-8.967	-7.511	-7.115	-5.666	-3.939
5	-3.868	-6.265	-7.127	-6.006	-5.861	-4.774	-3.850
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-2.100	-3.240	-3.843	-4.028	-3.355	-2.523	-2.197
11	-1.576	-2.298	*000.000	-2.431	-2.718	-1.647	-1.237
12	-2.492	-1.777	-1.690	-1.627	-1.827	-1.157	-.948
13	-2.201	-1.753	-1.571	-1.365	-1.528	-.953	-.783
14	-2.109	-1.882	-1.624	-1.573	-1.755	-.335	-.937
15	-1.514	-.779	-.439	-.382	-.494	-.261	-.032
16	-2.928	-3.500	-2.786	-2.720	-2.997	-2.718	-1.481
17	-2.886	-4.455	-3.214	-3.271	-3.733	-2.882	-1.878
18	-2.807	-4.624	-3.376	-3.698	-4.512	-1.678	-1.489
19	-2.643	-4.327	-3.120	-3.362	-3.815	-1.134	-1.007
20	-2.783	-3.623	-2.555	-2.785	-2.509	-2.187	-1.520
21	-2.681	-2.841	-1.927	-1.888	-1.840	-2.014	-1.830
22	-2.180	-1.617	-1.155	-.912	-.511	-1.029	-1.206
23	-1.926	-1.027	-.540	-.557	-.536	-.562	-.688
24	-1.846	-.805	-.641	-.586	-.403	-.499	-.606
25	-2.608	-6.321	-8.137	-4.026	-1.832	-1.521	-4.962
26	.436	-.261	-.700	.624	*000.000	1.020	-.429
27	.728	.685	.494	1.306	1.326	1.140	.496
28	.510	.914	1.033	1.057	1.102	.871	.732
29	.041	.692	.842	.900	.946	.792	.683
30	-.515	.817	.846	1.086	1.022	.945	.123
31	.098	1.035	.965	1.345	1.361	1.254	.367
32	.344	.959	.898	1.294	1.333	1.176	.846
33	.412	.581	.832	1.060	1.090	.805	.446

$\alpha = 40°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-4.009	-8.575	-4.660	-6.707	-5.984	-5.072	-2.977
2	-4.901	-8.816	-4.443	-7.816	-7.439	-6.895	-2.468
3	-4.462	-4.901	-2.107	-7.337	-7.509	-5.025	-2.569
4	-3.957	-3.014	-1.462	-6.550	-6.861	-3.904	-1.061
5	-2.710	-1.720	-1.249	-4.929	-5.649	-2.975	-1.157
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
8	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
9	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
10	-1.135	-1.265	-1.140	-2.644	-2.963	-.756	-1.039
11	-1.029	-1.591	*000.000	-1.916	-1.963	-1.106	-1.145
12	-1.341	-1.310	-1.249	-1.203	-1.356	-.859	-.677
13	-.704	-1.065	-1.057	-1.114	-1.261	-.721	-.693
14	-.782	-.999	-1.012	-.948	-1.246	-.143	-.644
15	-.546	-.722	-.095	-.088	-.339	.092	.045
16	-1.069	-1.483	-1.520	-1.827	-2.079	-1.269	-1.070
17	-1.234	-1.596	-1.593	-1.720	-2.278	-.968	-.894
18	-1.164	-1.631	-1.423	-1.884	-1.770	-1.120	-1.185
19	-.909	-1.113	-1.262	-1.509	-1.890	-.912	-.833
20	-1.037	-1.092	-1.117	-1.216	-1.528	-1.014	-1.194
21	-.822	-1.042	-.960	-1.450	-1.425	-1.013	-1.298
22	-.835	-.861	-.886	-.965	-1.012	-.765	-.721
23	-.795	-.827	-.691	-.676	-.665	-.491	-.495
24	-.677	-.671	-.617	-.635	-.626	-.570	-.536
25	-2.136	-3.741	-3.515	-3.505	-2.071	-.942	-3.073
26	.533	.164	.124	.781	*000.000	1.122	.071
27	.804	.844	.912	1.318	1.311	1.180	.541
28	.632	1.023	1.177	1.224	1.040	.844	.736
29	.299	.951	.996	1.064	.849	.774	.719
30	.078	.991	.975	1.085	.915	.937	.266
31	.410	1.127	1.063	1.380	1.291	1.255	.569
32	.582	1.046	.942	1.413	1.231	1.175	.961
33	.485	.634	.789	1.024	.895	.722	.435

Table 23.- Pressure coefficients for wing with propeller rotation up at tip, inboard slat, $\delta_f = 20°$.

(a) $C_{T,S} = 0.90$, $q_s = 20.18$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.787	.783	.643	-1.105	-.026	.180	.090
2	.236	.199	.158	-.264	.734	.915	.257
3	.017	-.095	-.075	.095	.896	1.051	.309
4	-.282	-.425	-.400	.597	1.104	1.123	.289
5	-.464	-.652	-.642	.865	1.015	.921	.135
6	.000,000	.000,000	.000,000	-.296	-.224	-.100	-.255
7	.000,000	.000,000	.000,000	.895	.861	.729	.276
8	.000,000	.000,000	.000,000	.524	.345	.226	-.079
9	.000,000	.000,000	.000,000	-.135	-.379	-.525	-.527
10	-.282	-.676	-.921	-.335	-.434	-.493	-.424
11	-.236	-.692	.000,000	-.476	-.573	-.428	-.351
12	-.831	-.436	-.534	-.384	-.447	-.318	-.183
13	-.169	-.384	-.432	-.299	-.334	-.166	-.149
14	-.204	-.294	-.340	-.278	-.324	-.136	-.155
15	-.164	-.957	.028	-.068	-.096	-.023	-.063
16	.212	.075	.239	-.086	-.085	-.002	-.052
17	.247	.112	.251	-.069	-.078	.026	-.030
18	.271	.130	.212	-.131	-.061	.022	-.034
19	.107	-.055	-.051	-.148	-.106	.097	-.024
20	-.363	-.441	-.492	-.262	-.148	-.088	-.134
21	-.439	-.662	-.714	-.494	-.218	-.149	-.248
22	-.531	-.734	-.800	-.690	-.277	-.216	-.245
23	-.446	-.304	-.245	-.238	-.070	.034	-.058
24	-.269	.055	.183	.006	-.081	-.115	-.183
25	.990	1.044	.885	-1.196	-.645	-.556	-.206
26	.582	.803	.756	-.875	.000,000	-.574	-.160
27	.026	.244	.292	-.356	.090	-.074	-.249
28	-.028	.092	.120	-.282	-.209	-.039	-.105
29	.039	.222	.202	-.126	-.186	.105	-.030
30	.994	1.005	.972	-.112	-.110	.105	.075
31	.454	.643	.649	-.117	-.062	.080	.019
32	.211	.460	.539	-.010	-.064	.044	.033
33	.105	.308	.432	.046	.007	.014	-.024

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.762	.576	.273	-.765	.259	.589	.156
2	.143	-.150	-.340	-.143	.897	.977	.293
3	-.128	-.354	-.537	.255	1.035	1.118	.277
4	-.363	-.644	-.779	.655	1.120	1.029	.171
5	-.532	-.893	-.969	.784	.992	.890	.117
6	.000,000	.000,000	.000,000	-.300	-.228	-.097	-.137
7	.000,000	.000,000	.000,000	.810	.850	.809	.319
8	.000,000	.000,000	.000,000	.364	.197	.082	-.160
9	.000,000	.000,000	.000,000	-.272	-.644	-.652	-.642
10	-.358	-.838	-1.070	-.447	-.625	-.624	-.479
11	-.277	-.781	.000,000	-.527	-.665	-.471	-.379
12	-.942	-.567	-.567	-.412	-.492	-.270	-.261
13	-.208	-.402	-.433	-.346	-.341	-.160	-.212
14	-.242	-.330	-.409	-.293	-.284	-.170	-.155
15	-.089	-.974	.101	-.032	-.059	.088	-.006
16	.195	.126	.249	-.044	-.079	.072	-.024
17	.189	.161	.273	-.051	-.042	-.024	.029
18	.185	.132	.201	-.088	-.046	-.050	-.012
19	.053	-.052	-.025	-.075	-.062	-.004	-.022
20	-.396	-.452	-.505	-.252	-.166	-.074	-.116
21	-.551	-.700	-.780	-.507	-.231	-.176	-.300
22	-.582	-.723	-.742	-.566	-.127	-.099	-.274
23	-.522	-.333	-.297	-.230	-.048	.099	.018
24	-.363	.029	.186	.105	-.086	.119	-.002
25	1.068	1.140	.870	-1.045	-.423	-.297	-.306
26	.699	.855	.871	-.827	.000.000	-.565	.141
27	.136	.380	.456	-.354	.132	-.101	-.180
28	.024	.167	.255	-.322	-.180	-.107	-.099
29	.075	.253	.291	-.133	-.125	-.029	.026
30	1.024	1.005	.957	-.033	-.078	.128	.210
31	.443	.547	.597	-.072	-.044	.020	.158
32	.262	.434	.518	.059	-.007	-.017	.165
33	.049	.325	.394	.219	.037	.168	-.014

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.657	.300	-.097	-.533	.431	.617	.183
2	-.036	-.445	-.921	.101	.995	1.002	.363
3	-.294	-.708	-1.014	.347	1.108	1.075	.256
4	-.528	-1.030	-1.190	.634	1.146	1.061	.212
5	-.673	-1.225	-1.294	.820	.949	.844	.063
6	.000,000	.000,000	.000,000	-.323	-.217	-.272	-.219
7	.000,000	.000,000	.000,000	.731	.733	.696	.230
8	.000,000	.000,000	.000,000	.317	.066	-.087	-.235
9	.000,000	.000,000	.000,000	-.260	-.737	-.814	-.625
10	-.444	-.877	-1.088	-.470	-.724	-.690	-.501
11	-.393	-.853	.000,000	-.556	-.764	-.684	-.443
12	-.961	-.527	-.563	-.413	-.527	-.420	-.216
13	-.286	-.426	-.383	-.329	-.364	-.333	-.160
14	-.338	-.372	-.366	-.263	-.296	-.267	-.094
15	-.121	-.950	.202	-.006	-.027	.051	.025
16	.095	.167	.256	.087	-.012	.003	.024
17	.128	.161	.286	.009	-.008	-.005	.065
18	.093	.144	.296	.013	-.035	.068	.049
19	-.082	-.070	-.030	-.083	-.044	.078	.002
20	-.569	-.510	-.499	-.223	-.132	-.098	-.149
21	-.725	-.771	-.737	-.473	-.218	-.200	-.269
22	-.753	-.817	-.726	-.532	-.218	-.078	-.188
23	-.715	-.398	-.277	-.188	-.028	.052	.019
24	-.430	.072	.175	.159	-.071	.026	.056
25	1.079	1.057	.678	-.851	-.370	-.339	-.021
26	.728	.964	.873	-.774	.000,000	-.651	.106
27	.178	.482	.596	-.362	.102	-.143	-.124
28	.061	.253	.380	-.266	-.161	-.102	-.062
29	.060	.288	.368	-.051	-.125	-.006	.104
30	.913	.962	.913	.025	.013	-.021	.320
31	.461	.581	.619	.107	-.041	.196	.214
32	.222	.435	.543	.168	.030	.056	.188
33	.070	.347	.426	.297	.067	.153	.014

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.522	-.058	-.595	-.420	.559	.673	.035
2	-.334	-.896	-1.405	.268	1.088	1.085	.198
3	-.552	-1.109	-1.406	.441	1.166	1.147	.063
4	-.822	-1.379	-1.667	.770	1.117	1.053	.116
5	-.817	-1.378	-1.499	.790	.874	.661	-.030
6	.000,000	.000,000	.000,000	-.284	-.208	-.313	-.305
7	.000,000	.000,000	.000,000	.754	.748	.607	.171
8	.000,000	.000,000	.000,000	.229	-.039	-.152	-.319
9	.000,000	.000,000	.000,000	-.403	-.886	-.968	-.781
10	-.594	-1.074	-1.278	-.569	-.832	-.774	-.697
11	-.449	-.930	.000,000	-.623	-.816	-.639	-.476
12	-.999	-.590	-.587	-.456	-.549	-.417	-.306
13	-.414	-.493	-.503	-.336	-.415	-.429	-.157
14	-.476	-.427	-.399	-.325	-.327	-.202	-.222
15	-.182	-1.093	.187	.065	.044	-.047	-.109
16	-.034	.176	.241	.075	.012	.061	-.001
17	-.007	.161	.263	.070	-.036	.022	.005
18	-.031	.125	.205	-.003	-.028	-.012	-.027
19	-.152	-.109	-.075	-.045	-.080	-.075	-.013
20	-.745	-.586	-.573	-.236	-.211	-.111	-.203
21	-.871	-.840	-.780	-.472	-.379	-.275	-.306
22	-1.015	-.886	-.783	-.583	-.289	-.266	-.367
23	-.961	-.465	-.324	-.177	-.056	-.050	-.122
24	-.493	.047	.155	.128	-.080	-.075	-.017
25	1.086	.972	.349	-.719	-.245	-.246	-.164
26	.878	1.009	.863	-.730	.000.000	-.716	-.008
27	.250	.615	.705	-.288	.067	-.141	-.227
28	.057	.312	.445	-.246	-.173	-.133	-.194
29	.039	.296	.380	-.048	-.116	-.052	.037
30	.937	.951	.902	.095	.069	.047	.230
31	.408	.579	.636	.224	-.046	.059	.150
32	.176	.425	.545	.312	.024	.075	.145
33	.054	.314	.415	.357	.023	.016	.051

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.385	-.287	-1.298	-.115	.721	.769	.074
2	-.600	-1.340	-2.017	.434	1.116	1.139	.244
3	-.780	-1.435	-2.058	.620	1.207	1.083	.153
4	-.947	-1.648	-2.075	.785	1.068	.957	.089
5	-.952	-1.602	-1.892	.830	.828	.569	-.118
6	.000,000	.000,000	.000,000	-.285	-.221	-.242	-.149
7	.000,000	.000,000	.000,000	.680	.665	.572	.196
8	.000,000	.000,000	.000,000	.184	-.151	-.257	-.363
9	.000,000	.000,000	.000,000	-.483	-1.019	-1.109	-.874
10	-.604	-1.122	-1.406	-.621	-.906	-.904	-.631
11	-.488	-.955	.000,000	-.655	-.845	-.745	-.463
12	-1.010	-.576	-.623	-.429	-.541	-.412	-.225
13	-.527	-.485	-.483	-.325	-.365	-.339	-.167
14	-.635	-.481	-.475	-.296	-.342	-.291	-.166
15	-.230	-1.075	.229	.117	.031	.099	-.013
16	-.224	.185	.282	.155	.060	.058	.001
17	-.152	.175	.245	.107	.048	.111	.079
18	-.163	.122	.168	.044	.045	.032	.071
19	-.338	-.093	-.105	-.008	.016	.042	-.009
20	-1.013	-.621	-.590	-.259	-.223	-.178	-.115
21	-1.268	-.911	-.827	-.479	-.400	-.277	-.292
22	-1.508	-.973	-.822	-.549	-.341	-.265	-.310
23	-1.175	-.682	-.329	-.176	-.008	-.011	-.099
24	-.579	.029	.124	.142	-.033	.026	-.067
25	1.064	.827	-.036	-.609	-.156	-.295	-.247
26	.936	1.077	.851	-.697	.000,000	-.430	.036
27	.380	.753	.743	-.236	.077	-.104	-.203
28	.135	.403	.462	-.177	-.107	-.104	-.177
29	.009	.333	.356	.089	-.050	-.038	.170
30	.835	.941	.908	.215	.115	.186	.287
31	.402	.610	.645	.360	.071	.064	.259
32	.183	.472	.553	.577	.161	.117	.338
33	.009	.343	.385	.505	.281	.177	.062

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.042	-.674	-1.715	-.002	.788	.855	.119
2	-.877	-1.733	-2.494	.527	1.182	1.211	.206
3	-.999	-1.915	-2.596	.721	1.187	1.145	.231
4	-1.288	-1.987	-2.415	.794	1.070	.904	.021
5	-1.172	-1.898	-2.116	.910	.771	.562	-.123
6	.000,000	.000,000	.000,000	-.225	-.181	-.240	-.093
7	.000,000	.000,000	.000,000	.264	-.250	-.435	-.404
8	.000,000	.000,000	.000,000	-.599	-1.208	-1.289	-.940
9	.000,000	.000,000	.000,000	-.672	-.998	-.986	-.683
10	-.738	-1.272	-1.513	-.685	-.926	-.794	-.429
11	-.642	-1.027	.000,000	-.606	-.607	-.484	-.264
12	-1.147	-.652	-.626	-.487	-.391	-.366	-.091
13	-.671	-.522	-.437	-.326	-.362	-.324	-.031
14	-.829	-.472	-.406	-.287	-.010	.130	.169
15	-.334	-1.111	.277	.196	.113	.070	.069
16	-.340	.188	.328	.256	-.023	.109	-.001
17	-.371	.138	.327	.199	-.051	.109	-.020
18	-.374	.101	.252	.131	.007	-.016	-.066
19	-.569	-.143	-.088	.025	-.052	.072	-.097
20	-1.294	-.659	-.577	-.274	-.302	-.262	-.294
21	-1.730	-.986	-.823	-.567	-.475	-.391	-.287
22	-1.868	-1.003	-.677	-.623	-.480	-.414	-.037
23	-1.484	-.548	-.318	-.199	-.047	-.093	-.073
24	-.662	.012	.089	.150	-.023	-.051	-.098
25	.967	.646	-.283	-.515	-.077	-.089	.024
26	.933	1.053	.811	-.663	.000,000	-.461	-.177
27	.419	.791	.814	-.208	.046	-.131	.015
28	.129	.445	.620	-.137	-.132	-.164	.161
29	-.016	.359	.449	.124	-.029	-.025	.376
30	.760	.940	.947	.376	.170	.149	.255
31	.326	.593	.650	.465	.241	.219	.432
32	.119	.432	.585	.640	.280	.213	.172
33	-.041	.316	.465	.535	.325	.133	

Table 23. - Continued.

(a) $C_{T,S} = 0.90$, $q_S = 20.18$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.169	-1.133	-2.410	.126	.844	.947	-.103
2	-1.220	-2.188	-3.120	.501	1.166	1.225	-.039
3	-1.387	-2.390	-3.148	.693	1.171	1.119	-.081
4	-1.388	-2.220	-2.867	.808	.953	.885	-.193
5	-1.341	-2.146	-2.369	.791	.694	.486	-.370
6	*000.000	*000.000	*000.000	-.302	-.258	-.275	-.199
7	*000.000	*000.000	*000.000	.595	.552	.516	.097
8	*000.000	*000.000	*000.000	.045	-.370	-.441	-.502
9	*000.000	*000.000	*000.000	-.718	-1.284	-1.239	-.957
10	-.867	-1.441	-1.633	-.866	-1.141	-1.040	-.687
11	-.717	-1.095	*000.000	-.812	-.970	-.784	-.421
12	-1.082	-.723	-.606	-.622	-.694	-.488	-.243
13	-.872	-.613	-.465	-.355	-.486	-.317	-.201
14	-1.081	-.564	-.435	-.394	-.467	-.342	-.123
15	-.427	-1.155	.289	.195	.174	.164	.042
16	-.586	.169	.325	.245	.125	.246	.029
17	-.537	.120	.323	.189	.115	.106	-.023
18	-.517	.080	.192	.144	.052	.098	-.083
19	-.763	-.153	-.078	-.011	-.118	.092	-.093
20	-1.551	-.711	-.597	-.418	-.433	-.353	-.210
21	-1.905	-1.012	-.711	-.656	-.677	-.470	-.262
22	-2.182	-1.116	-.693	-.764	-.676	-.536	-.340
23	-1.662	-.598	-.240	-.282	-.053	-.118	-.303
24	-.765	-.021	.084	.078	-.022	-.093	-.015
25	.907	.426	-.622	-.408	-.012	-.054	-.239
26	1.050	1.052	.750	-.687	*000.000	-.469	-.029
27	.475	.835	.869	-.292	.027	-.219	-.155
28	.168	.473	.836	-.146	-.148	-.143	-.106
29	-.044	.365	.497	.195	.037	-.017	.190
30	.722	.912	.980	.418	.329	.250	.158
31	.290	.605	.706	.537	.287	.244	.174
32	.094	.430	.593	.546	.397	.344	.293
33	-.056	.297	.456	.389	.267	.202	-.033

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.514	-1.408	-2.700	.245	.923	.850	-.164
2	-1.448	-2.472	-3.644	.829	1.178	1.069	-.163
3	-1.737	-2.707	-3.556	.785	1.120	1.068	-.308
4	-1.689	-2.592	-3.279	.695	.925	.795	-.371
5	-1.489	-2.333	-2.569	.686	.513	.394	-.461
6	*000.000	*000.000	*000.000	-.271	-.245	-.229	-.174
7	*000.000	*000.000	*000.000	.566	.496	.485	-.120
8	*000.000	*000.000	*000.000	-.031	-.436	-.480	-.507
9	*000.000	*000.000	*000.000	-.749	-1.358	-1.365	-.875
10	-.978	-1.516	-1.649	-.954	-1.232	-1.056	-.594
11	-.785	-1.087	*000.000	-.816	-.960	-.692	-.403
12	-1.064	-.756	-.577	-.559	-.649	-.427	-.173
13	-1.040	-.658	-.493	-.391	-.464	-.391	-.174
14	-1.340	-.605	-.446	-.360	-.447	-.291	-.193
15	-.556	-1.087	.297	.354	.257	.207	.002
16	-.758	.123	.294	.360	.168	.131	.046
17	-.754	.077	.219	.257	.105	.124	.116
18	-.765	.041	.157	.261	.150	.058	.039
19	-.901	-.205	-.189	.028	-.111	.078	-.021
20	-1.658	-.707	-.622	-.402	-.456	-.407	-.166
21	-2.263	-1.077	-.662	-.713	-.759	-.577	-.263
22	-2.457	-1.127	-.627	-.724	-.721	-.676	-.457
23	-1.873	-.610	-.282	-.227	-.141	-.319	-.367
24	-.789	-.032	-.018	.108	.068	.018	-.080
25	.673	.133	-1.048	-.178	.063	-.028	-.196
26	.995	.964	.715	-.609	*000.000	-.477	-.031
27	.495	.864	.882	-.208	.010	-.274	-.156
28	.160	.495	.610	-.089	-.162	-.171	.018
29	-.100	.328	.447	.395	.154	.069	.181
30	.589	.822	.911	.656	.503	.352	.310
31	.217	.584	.685	.611	.520	.315	.254
32	.042	.382	.577	.576	.448	.329	.233
33	-.132	.262	.369	.432	.394	.176	.108

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.014	-1.856	-3.267	.457	.995	.982	-.267
2	-1.932	-2.907	-4.093	.838	1.166	1.128	-.409
3	-2.142	-3.067	-3.954	.775	1.082	1.083	-.468
4	-2.016	-2.861	-3.594	.733	.865	.722	-.592
5	-1.798	-2.599	-2.837	.624	.526	.405	-.479
6	*000.000	*000.000	*000.000	-.373	-.235	-.301	-.256
7	*000.000	*000.000	*000.000	.425	.469	.494	-.122
8	*000.000	*000.000	*000.000	-.317	-.564	-.473	-.485
9	*000.000	*000.000	*000.000	-1.109	-1.479	-1.239	-.674
10	-1.070	-1.589	-1.656	-1.109	-1.273	-1.028	-.540
11	-.890	-1.182	*000.000	-.961	-1.055	-.698	-.346
12	-1.025	-.801	-.646	-.638	-.679	-.326	-.167
13	-1.189	-.716	-.545	-.461	-.524	-.310	-.200
14	-1.371	-.644	-.430	-.415	-.443	-.174	-.212
15	-.681	-1.106	.356	.330	.309	.328	-.059
16	-.874	.118	.322	.311	.150	.163	-.041
17	-.881	.081	.285	.265	.110	.176	.131
18	-.790	.027	.170	.201	.073	.170	.082
19	-1.014	-.233	-.130	-.005	-.095	.100	.010
20	-1.915	-.787	-.614	-.522	-.557	-.367	-.256
21	-2.445	-1.135	-.707	-.831	-.751	-.390	-.366
22	-2.489	-1.094	-.571	-.820	-.723	-.516	-.290
23	-1.824	-.607	-.318	-.304	-.172	-.423	-.392
24	-.873	-.079	-.046	.130	.042	-.033	-.099
25	.514	-.095	-1.313	-.082	.125	-.090	-.408
26	1.014	.918	.665	-.611	*000.000	-.376	-.153
27	.630	.916	.932	-.305	.010	-.204	-.242
28	.231	.523	.667	-.027	-.166	-.089	-.112
29	-.074	.365	.516	.430	.157	.160	.097
30	.645	.876	.958	.752	.573	.452	.226
31	.164	.580	.700	.636	.621	.376	.259
32	.038	.401	.571	.538	.509	.315	.192
33	-.060	.255	.412	.403	.405	.199	.039

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.435	-2.212	-3.776	.735	1.112	.905	-.449
2	-2.405	-3.127	-4.159	.866	1.186	1.043	-.586
3	-2.626	-3.384	-4.223	.974	1.098	.902	-.486
4	-2.526	-3.208	-3.844	.775	.855	.632	-.636
5	-2.182	-2.807	-2.991	.585	.465	.331	-.617
6	*000.000	*000.000	*000.000	-.306	-.176	-.317	-.121
7	*000.000	*000.000	*000.000	.388	.478	.455	-.211
8	*000.000	*000.000	*000.000	-.403	-.560	-.507	-.370
9	*000.000	*000.000	*000.000	-1.374	-1.579	-1.163	-.516
10	-1.190	-1.684	-1.658	-1.267	-1.222	-.925	-.394
11	-.992	-1.279	*000.000	-1.036	-.999	-.636	-.319
12	-.951	-.814	-.615	-.652	-.634	-.426	-.197
13	-1.329	-.757	-.509	-.464	-.473	-.313	-.200
14	-1.595	-.697	-.485	-.449	-.450	-.257	-.163
15	-.853	-1.139	.371	.385	.264	.130	.017
16	-1.042	.063	.297	.315	.196	.130	-.007
17	-.993	.017	.272	.301	.192	.065	-.078
18	-1.005	-.020	.146	.232	.118	.008	-.027
19	-1.193	-.285	-.179	.031	-.092	.071	-.103
20	-2.078	-.872	-.638	-.540	-.515	-.398	-.254
21	-2.772	-1.239	-.744	-.877	-.848	-.513	-.407
22	-2.798	-1.136	-.668	-.893	-.721	-.493	-.334
23	-1.918	-.623	-.404	-.337	-.207	-.348	-.295
24	-.925	-.145	-.092	.092	.015	-.140	-.165
25	.189	-.151	-1.387	.086	.201	-.204	-.267
26	.907	.909	.678	-.553	*000.000	-.455	-.224
27	.613	.908	.914	-.239	.025	-.306	-.210
28	.251	.476	.651	-.077	-.167	-.221	-.063
29	-.139	.329	.465	.372	.245	.040	.072
30	.562	.852	.940	.761	.604	.308	.257
31	.174	.590	.730	.677	.674	.358	.113
32	-.040	.370	.552	.508	.510	.311	.133
33	-.112	.235	.407	.411	.379	.084	.077

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.136	-2.470	-3.745	.878	1.074	.802	-.434
2	-2.943	-3.347	-4.529	.932	1.154	1.017	-.452
3	-3.025	-3.636	-4.538	.959	1.110	.895	-.492
4	-2.769	-3.410	-3.922	.799	.781	.632	-.531
5	-2.339	-2.893	-3.012	.540	.398	.227	-.542
6	*000.000	*000.000	*000.000	-.309	-.220	-.385	-.057
7	*000.000	*000.000	*000.000	.367	.425	.492	-.059
8	*000.000	*000.000	*000.000	-.509	-.654	-.345	-.191
9	*000.000	*000.000	*000.000	-1.397	-1.595	-1.148	-.529
10	-1.273	-1.684	-1.634	-1.255	-1.180	-.576	-.227
11	-1.048	-1.265	*000.000	-.996	-.932	-.443	-.251
12	-.933	-.865	-.628	-.613	-.569	-.347	-.149
13	-1.395	-.736	-.517	-.449	-.408	-.372	-.120
14	-1.804	-.712	-.507	-.405	-.368	-.222	-.156
15	-.998	-1.013	.342	.438	.227	.124	.037
16	-1.113	.078	.284	.352	.153	.057	-.014
17	-1.180	-.005	.203	.283	.190	.112	.001
18	-1.156	-.051	.147	.195	.098	-.010	.001
19	-1.275	-.353	-.201	-.009	-.047	-.019	-.005
20	-2.371	-.904	-.699	-.540	-.521	-.270	-.258
21	-2.920	-1.167	-.749	-.776	-.721	-.328	-.250
22	-2.763	-1.120	-.727	-.834	-.599	-.364	-.312
23	-1.780	-.584	-.471	-.271	-.367	-.216	-.233
24	-.923	-.156	-.138	.105	-.013	-.117	-.130
25	-.272	-.388	-1.600	.153	.188	-.146	-.135
26	.850	.880	.640	-.457	*000.000	-.477	-.161
27	.536	.907	.921	-.214	.043	-.370	-.152
28	.183	.493	.629	.006	-.139	-.229	-.107
29	-.164	.292	.466	.396	.208	.097	.072
30	.452	.812	.881	.759	.632	.214	.160
31	.165	.552	.705	.701	.580	.269	.170
32	-.018	.362	.541	.532	.495	.221	.124
33	-.106	.172	.360	.401	.344	.138	.091

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.521	-2.745	-4.142	.971	1.098	.515	-.142
2	-3.336	-3.800	-4.750	.984	1.167	.895	-.335
3	-3.581	-3.958	-4.558	.881	1.097	.900	-.167
4	-3.098	-3.498	-3.829	.795	.815	.643	-.181
5	-2.455	-2.929	-2.897	.450	.433	.488	-.250
6	*000.000	*000.000	*000.000	-.302	-.201	-.200	-.107
7	*000.000	*000.000	*000.000	.319	.437	.626	-.015
8	*000.000	*000.000	*000.000	-.574	-.588	.019	-.340
9	*000.000	*000.000	*000.000	-1.647	-1.571	-.534	-.354
10	-1.475	-1.999	-1.765	-1.475	-1.192	-.374	-.237
11	-1.105	-1.416	*000.000	-1.037	-.872	-.260	-.201
12	-.907	-.909	-.632	-.621	-.446	-.026	-.159
13	-1.702	-.789	-.575	-.448	-.350	-.151	-.036
14	-1.879	-.781	-.559	-.401	-.353	-.113	-.122
15	-1.058	-1.062	.372	.278	.211	.142	.002
16	-1.202	.023	.260	.286	.177	.152	.052
17	-1.257	-.058	.219	.261	.157	.226	-.005
18	-1.179	-.123	.142	.191	.055	.138	-.069
19	-1.408	-.437	-.247	-.054	-.110	.145	-.106
20	-2.350	-.960	-.744	-.506	-.381	-.102	-.078
21	-2.760	-1.196	-.916	-.760	-.580	-.281	-.366
22	-2.925	-1.141	-.866	-.855	-.643	-.257	-.407
23	-1.623	-.706	-.560	-.243	-.286	-.290	-.223
24	-.754	-.264	-.117	.054	-.108	-.009	-.167
25	-.554	-.585	-1.592	.223	.195	-.264	-.222
26	.831	.864	.679	-.377	*000.000	-.378	-.161
27	.549	.874	.902	-.203	.066	-.249	-.109
28	.196	.518	.642	-.064	-.113	-.150	.091
29	-.184	.282	.494	.307	.155	.116	.092
30	.426	.780	.938	.731	.571	.258	.070
31	.114	.530	.667	.642	.460	.348	.159
32	-.087	.381	.524	.529	.522	.283	.261
33	-.081	.175	.363	.401	.314	.211	.034

Table 23. - Continued.

(a) $C_{T,S} = 0.90$, $q_S = 20.18$

$\alpha = 65°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.991	-3.083	-4.146	.935	1.093	.024	-.127
2	-4.231	-4.198	-4.831	1.040	1.221	.655	-.140
3	-3.884	-4.092	-4.524	.976	1.094	.784	-.121
4	-3.393	-3.722	-4.033	.732	.851	.711	-.135
5	-2.856	-3.177	-3.043	.476	.457	.288	-.128
6	*000.000	*000.000	*000.000	-.293	-.183	-.282	-.252
7	*000.000	*000.000	*000.000	.296	.465	.536	.113
8	*000.000	*000.000	*000.000	-.652	-.550	-.037	-.031
9	*000.000	*000.000	*000.000	-1.713	-1.485	-.548	-.234
10	-1.598	-2.004	-1.762	-1.501	-1.056	-.371	-.215
11	-1.210	-1.374	*000.000	-1.067	-.782	-.208	-.079
12	-.998	-.889	-.673	-.654	-.413	-.163	-.036
13	-1.791	-.849	-.645	-.429	-.282	-.098	-.139
14	-2.085	-.821	-.637	-.425	-.330	-.136	-.151
15	-1.141	-.988	.304	.355	.188	.169	.109
16	-1.366	.065	.190	.272	.124	.182	.023
17	-1.285	-.084	.182	.246	.212	.193	.007
18	-1.268	-.134	.068	.137	.033	.042	.059
19	-1.398	-.454	-.258	-.062	-.031	.038	-.086
20	-2.411	-.982	-.811	-.553	-.376	-.212	-.180
21	-3.066	-1.138	-.982	-.608	-.401	-.288	-.235
22	-2.724	-1.115	-.977	-.663	-.485	-.322	-.351
23	-1.296	-.730	-.643	-.292	-.291	-.302	-.267
24	-.743	-.241	-.153	.033	-.085	-.198	-.094
25	-1.129	-.770	-1.815	.224	.183	-.432	-.188
26	.491	.833	.630	-.380	*000.000	-.401	-.106
27	.354	.845	.856	-.195	.062	-.185	-.083
28	.122	.491	.600	-.080	-.124	-.258	.049
29	-.225	.336	.467	.362	.199	.134	.089
30	.272	.904	.933	.680	.604	.209	.196
31	-.029	.584	.614	.613	.483	.149	.084
32	-.149	.374	.494	.509	.459	.192	.131
33	-.152	.189	.314	-370	.314	.155	.006

$\alpha = 70°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.539	-3.431	-4.294	.959	1.094	-.354	-.103
2	-4.231	-4.328	-4.754	.979	1.104	-.028	-.192
3	-4.290	-4.411	-4.636	.920	1.085	.237	-.029
4	-3.554	-3.980	-3.964	.691	.790	.303	-.173
5	-3.049	-3.523	-3.146	.484	.574	.474	-.051
6	*000.000	*000.000	*000.000	-.245	-.129	-.144	-.007
7	*000.000	*000.000	*000.000	.314	.534	.545	.148
8	*000.000	*000.000	*000.000	-.714	-.375	.079	-.108
9	*000.000	*000.000	*000.000	-1.804	-1.399	-.229	-.197
10	-1.711	-2.126	-1.676	-1.610	-.867	-.204	-.138
11	-1.107	-1.539	*000.000	-1.164	-.617	-.190	-.212
12	-.987	-.994	-.712	-.596	-.413	-.163	-.124
13	-1.635	-.842	-.656	-.423	-.219	-.172	-.127
14	-1.945	-.816	-.635	-.386	-.275	-.192	-.131
15	-1.095	-.925	.306	.272	.104	.054	-.019
16	-1.089	-.017	.225	.166	.031	.019	.042
17	-1.126	-.065	.146	.142	.058	.041	.100
18	-1.133	-.202	.081	.104	.092	.071	-.098
19	-1.217	-.486	-.295	-.062	-.038	-.006	-.146
20	-2.104	-1.081	-.869	-.516	-.264	-.143	-.270
21	-2.703	-1.138	-.988	-.733	-.473	-.354	-.252
22	-2.176	-1.108	-1.013	-.541	-.351	-.324	-.236
23	-1.155	-.683	-.637	-.387	-.332	-.297	-.378
24	-.505	-.226	-.109	-.071	-.107	-.113	-.143
25	-1.403	-1.000	-1.824	.193	.158	-.547	-.130
26	.314	.688	.591	-.294	*000.000	-.347	-.091
27	.398	.837	.868	-.211	.078	-.092	-.117
28	.152	.489	.637	-.129	-.135	-.154	-.078
29	-.187	.263	.471	.240	.028	-.042	.038
30	.272	.795	.896	.515	.365	.181	.094
31	-.009	.612	.639	.587	.265	.086	.188
32	-.097	.378	.539	.493	.362	.133	.064
33	-.012	.139	.331	.341	.333	.210	.140

$\alpha = 75°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.905	-3.679	-4.211	.967	.999	-.245	-.233
2	-4.391	-4.537	-4.890	.932	1.132	.060	-.127
3	-4.230	-4.553	-4.389	.775	.985	.149	-.138
4	-3.874	-4.444	-4.211	.748	.897	.245	-.126
5	-2.847	-3.590	-3.051	.416	.474	.102	-.166
6	*000.000	*000.000	*000.000	-.217	-.155	-.096	-.009
7	*000.000	*000.000	*000.000	.267	.493	.254	-.053
8	*000.000	*000.000	*000.000	-.699	-.363	.070	-.018
9	*000.000	*000.000	*000.000	-1.670	-1.029	-.250	-.205
10	-1.351	-2.015	-1.579	-1.511	-.727	-.250	-.107
11	-1.108	-1.450	*000.000	-1.058	-.544	-.198	.073
12	-1.037	-.946	-.691	-.595	-.366	-.136	-.154
13	-1.727	-.865	-.672	-.503	-.277	-.227	-.125
14	-2.019	-.901	-.736	-.449	-.383	-.217	-.205
15	-.816	-.829	.205	.192	.014	.128	.052
16	-1.046	.031	.158	.147	-.008	-.012	.059
17	-.982	-.129	.110	.143	.104	.144	-.042
18	-1.012	-.173	.032	.078	-.048	-.069	-.100
19	-1.164	-.480	-.323	-.166	-.098	-.035	-.054
20	-1.705	-.979	-.846	-.440	-.347	-.214	-.284
21	-2.057	-1.041	-.983	-.601	-.351	-.293	-.198
22	-1.816	-.984	-.984	-.623	-.402	-.329	-.200
23	-.997	-.615	-.696	-.357	-.353	-.359	-.367
24	-.461	-.248	-.100	-.123	-.099	-.080	-.079
25	-1.938	-1.176	-1.866	.321	.236	-.618	-.270
26	-.009	.679	.490	-.389	*000.000	-.396	-.056
27	.071	.837	.873	-.120	.125	-.168	.027
28	-.062	.399	.563	-.073	-.131	-.083	-.129
29	-.232	.203	.404	.103	-.043	-.133	-.018
30	.148	.710	.800	.335	.280	.160	.107
31	-.086	.539	.501	.585	.422	.204	.016
32	-.153	.319	.411	.431	.125	-.017	.119
33	-.056	.109	.269	.290	.329	.128	.172

$\alpha = 80°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.937	-3.824	-4.325	.826	.916	-.548	-.213
2	-4.440	-5.167	-4.854	.898	1.149	-.056	-.203
3	-4.022	-4.995	-4.655	.878	1.064	-.064	-.274
4	-3.602	-4.537	-4.176	.643	.778	.006	-.246
5	-2.517	-3.592	-2.962	.329	.501	-.135	-.229
6	*000.000	*000.000	*000.000	-.227	-.136	-.189	-.150
7	*000.000	*000.000	*000.000	.283	.520	.295	-.118
8	*000.000	*000.000	*000.000	-.536	-.072	-.033	-.104
9	*000.000	*000.000	*000.000	-1.822	-1.108	-.137	-.157
10	-1.402	-2.119	-1.563	-1.503	-.599	-.082	-.327
11	-1.194	-1.557	*000.000	-1.143	-.544	-.233	-.123
12	-1.044	-.942	-.712	-.551	-.321	-.134	-.078
13	-1.366	-.759	-.574	-.366	-.181	-.252	-.159
14	-1.564	-.820	-.608	-.386	-.271	-.172	-.111
15	-.809	-.858	.278	.113	.079	-.060	-.158
16	-.966	-.011	.169	.095	.105	.040	-.112
17	-.960	-.068	.126	.091	-.024	-.072	.012
18	-.777	-.155	.059	.015	-.064	-.043	-.129
19	-.930	-.484	-.298	-.200	-.084	-.014	-.132
20	-1.435	-.899	-.735	-.394	-.255	-.221	-.239
21	-1.524	-.960	-.929	-.527	-.367	-.414	-.492
22	-1.613	-1.002	-1.026	-.681	-.518	-.288	-.526
23	-.774	-.573	-.575	-.299	-.235	-.213	-.292
24	-.485	-.185	-.050	-.162	-.132	-.128	-.159
25	-2.529	-1.471	-1.899	.153	.041	-.511	-.110
26	-.175	.664	.536	-.281	*000.000	-.403	-.097
27	.068	.747	.868	-.082	.091	-.151	-.147
28	.054	.376	.594	-.085	-.099	-.047	-.200
29	-.206	.194	.427	-.008	-.122	-.169	-.079
30	.138	.680	.753	.224	.075	-.087	-.178
31	-.043	.564	.535	.361	.193	.025	-.015
32	-.026	.287	.414	.180	.011	-.027	-.083
33	-.018	.091	.280	.337	.329	.031	.003

Table 23. - Continued.

(b) $C_{T,S} = 0.80$, $q_S = 20.04$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.969	.836	.603	-.972	.259	.603	.445
2	.473	.083	-.115	.084	1.004	1.174	.711
3	.141	-.238	-.269	.259	1.151	1.293	.588
4	-.208	-.457	-.503	.605	1.202	1.173	.498
5	-.473	-.773	-.850	.931	1.074	.916	.292
6	*000.000	*000.000	*000.000	-.332	-.238	-.176	-.198
7	*000.000	*000.000	*000.000	.612	.775	.725	.445
8	*000.000	*000.000	*000.000	.378	.175	.013	-.050
9	*000.000	*000.000	*000.000	-.394	-.650	-.726	-.639
10	-.497	-.817	-1.086	-.625	-.680	-.683	-.545
11	-.464	-.883	*000.000	-.753	-.790	-.593	-.462
12	-.949	-.526	-.618	-.480	-.545	-.391	-.268
13	-.274	-.436	-.470	-.362	-.356	-.217	-.172
14	-.292	-.388	-.465	-.367	-.349	-.186	-.108
15	-.165	-.588	.062	-.018	-.085	.076	-.141
16	.236	.115	.219	-.005	-.045	.120	.019
17	.247	.143	.242	-.017	-.040	.005	.047
18	.234	.158	.155	-.088	-.035	-.087	.050
19	.073	-.033	-.095	-.064	-.068	-.001	.017
20	-.424	-.512	-.562	-.200	-.115	.024	-.090
21	-.669	-.798	-.858	-.533	-.226	-.161	-.271
22	-.657	-.772	-.886	-.581	-.145	-.142	-.157
23	-.574	-.314	-.289	-.200	-.055	-.014	.012
24	-.353	.140	.171	-.063	-.028	-.038	.020
25	1.018	1.142	.823	-1.068	-.549	-.382	-.313
26	.536	.845	.687	-.702	*000.000	-.573	.014
27	-.018	.320	.277	-.380	.107	-.094	-.059
28	-.053	.162	.160	-.357	-.228	-.117	-.136
29	.094	.284	.214	-.077	-.177	-.006	-.034
30	1.015	1.013	.900	-.062	-.087	.051	.337
31	.465	.614	.542	-.079	.008	0.	.198
32	.256	.492	.503	.023	-.067	.044	.145
33	.115	.424	.435	.042	.036	-.048	-.046

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.855	.425	-.007	-.545	.556	.754	.541
2	.110	-.341	-.525	.112	1.094	1.144	.607
3	-.151	-.609	-.595	.459	1.183	1.235	.517
4	-.504	-1.050	-1.095	.736	1.214	1.149	.440
5	-.699	-1.190	-1.194	.802	.911	.785	.172
6	*000.000	*000.000	*000.000	-.345	-.218	-.171	-.249
7	*000.000	*000.000	*000.000	.697	.755	.652	.349
8	*000.000	*000.000	*000.000	.162	.015	-.062	-.193
9	*000.000	*000.000	*000.000	-.592	-.864	-.931	-.802
10	-.583	-.997	-1.192	-.786	-.799	-.806	-.639
11	-.548	-.963	*000.000	-.801	-.890	-.789	-.527
12	-1.008	-.582	-.602	-.552	-.560	-.477	-.310
13	-.357	-.499	-.480	-.390	-.378	-.277	-.173
14	-.388	-.438	-.404	-.339	-.282	-.277	-.158
15	-.065	-.618	.123	.006	.064	.026	-.130
16	.107	.151	.263	.062	.011	.062	.013
17	.111	.126	.260	-.021	-.010	.125	.047
18	.105	.122	.178	-.019	-.017	.098	.055
19	-.073	-.115	-.086	-.114	-.037	.071	-.013
20	-.579	-.563	-.559	-.285	-.132	-.067	-.171
21	-.814	-.864	-.792	-.538	-.244	-.183	-.215
22	-.918	-.864	-.772	-.566	-.127	-.109	-.222
23	-.768	-.393	-.260	-.226	.012	.073	.017
24	-.483	.094	.166	-.002	-.024	-.017	-.046
25	1.104	1.100	.674	-.931	-.351	-.281	-.112
26	.655	.902	.766	-.906	*000.000	-.666	-.021
27	.095	.418	.543	-.375	.166	-.155	-.101
28	-.016	.224	.297	-.320	-.155	-.115	-.068
29	.055	.305	.287	-.071	-.079	-.029	.053
30	.847	.931	.886	.042	-.008	.065	.293
31	.411	.625	.623	.038	.034	.072	.242
32	.223	.479	.510	.282	.087	.164	.246
33	.067	.367	.421	.303	.063	.049	-.041

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.549	-.152	-.883	-.152	.699	.852	.623
2	-.233	-1.135	-1.395	.510	1.195	1.300	.546
3	-.490	-1.247	-1.459	.562	1.185	1.175	.556
4	-.755	-1.473	-1.804	.764	1.030	.938	.230
5	-.822	-1.452	-1.456	.750	.779	.640	.083
6	*000.000	*000.000	*000.000	-.267	-.170	-.247	-.275
7	*000.000	*000.000	*000.000	.664	.667	.510	.262
8	*000.000	*000.000	*000.000	.088	-.189	-.312	-.361
9	*000.000	*000.000	*000.000	-.746	-1.098	-1.124	-.924
10	-.671	-1.145	-1.343	-.833	-1.006	-1.011	-.756
11	-.553	-.972	*000.000	-.771	-.876	-.779	-.582
12	-.992	-.618	-.597	-.525	-.597	-.491	-.338
13	-.430	-.508	-.469	-.377	-.402	-.383	-.206
14	-.517	-.493	-.436	-.327	-.370	-.261	-.201
15	-.129	-.706	.158	.115	.066	.025	-.052
16	.044	.165	.271	.094	.118	-.018	.010
17	-.057	.156	.261	.082	.062	.085	.116
18	-.038	.144	.200	.078	.040	.107	.044
19	-.196	-.110	-.117	-.002	-.055	.039	.005
20	-.691	-.619	-.537	-.296	-.228	-.226	-.265
21	-1.026	-.932	-.777	-.586	-.363	-.388	-.393
22	-1.086	-.932	-.755	-.586	-.323	-.421	-.426
23	-1.107	-.464	-.251	-.189	-.024	-.069	-.169
24	-.570	.079	.181	.071	-.012	-.009	-.006
25	1.057	.901	.266	-.552	-.067	-.117	-.027
26	.841	1.048	.823	-.620	*000.000	-.472	-.041
27	.278	.636	.713	-.223	.112	-.138	-.089
28	.121	.340	.459	-.165	-.092	-.093	-.087
29	.052	.345	.388	.063	-.056	.010	.172
30	.921	.998	1.000	.207	.113	.185	.457
31	.425	.601	.632	.187	.028	.195	.342
32	.213	.431	.522	.380	.147	.096	.296
33	.069	.352	.397	.413	.181	.202	-.028

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.306	-.627	-1.714	.377	.955	1.017	.483
2	-.674	-1.761	-2.452	.623	1.214	1.224	.608
3	-.846	-1.927	-2.416	.745	1.146	1.124	.348
4	-1.023	-1.980	-2.423	.742	.962	.843	.249
5	-1.150	-2.052	-2.136	.747	.703	.513	-.126
6	*000.000	*000.000	*000.000	-.196	-.114	-.200	-.152
7	*000.000	*000.000	*000.000	.620	.550	.450	.082
8	*000.000	*000.000	*000.000	-.023	-.425	-.521	-.585
9	*000.000	*000.000	*000.000	-.784	-1.382	-1.497	-1.280
10	-.740	-1.307	-1.518	-.906	-1.166	-1.117	-.988
11	-.669	-1.094	*000.000	-.779	-1.039	-.904	-.743
12	-1.050	-.677	-.598	-.576	-.642	-.505	-.399
13	-.578	-.595	-.465	-.392	-.457	-.451	-.276
14	-.665	-.513	-.444	-.332	-.403	-.358	-.302
15	-.236	-.822	.251	.262	.216	.189	-.291
16	-.287	.185	.274	.191	.145	.105	-.022
17	-.289	.132	.277	.220	.130	.070	.008
18	-.267	.092	.173	.143	.126	.083	.035
19	-.377	-.160	-.149	.028	-.069	.072	-.014
20	-.965	-.699	-.562	-.345	-.337	-.356	-.398
21	-1.351	-.962	-.736	-.620	-.570	-.533	-.442
22	-1.621	-.991	-.697	-.677	-.515	-.633	-.482
23	-1.384	-.523	-.235	-.225	-.009	-.134	-.186
24	-.682	.044	.098	.100	-.007	-.004	-.083
25	1.009	.728	-.129	-.211	.054	.073	-.035
26	.909	1.013	.748	-.462	*000.000	-.310	-.099
27	.401	.785	.831	-.174	.101	-.125	-.183
28	.134	.438	.536	-.056	-.098	-.102	-.103
29	.038	.381	.443	.346	.142	.146	.240
30	.791	.973	.973	.624	.405	.382	.480
31	.395	.656	.715	.573	.422	.368	.465
32	.184	.468	.589	.628	.398	.347	.370
33	.025	.341	.458	.496	.349	.306	.054

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.094	-1.401	-2.745	.702	1.006	1.117	.155
2	-1.032	-2.414	-3.507	.870	1.212	1.245	.092
3	-1.237	-2.502	-3.258	.899	1.150	1.116	.041
4	-1.337	-2.377	-2.942	.745	.875	.689	-.147
5	-1.320	-2.185	-2.359	.590	.476	.275	-.247
6	*000.000	*000.000	*000.000	-.250	-.156	-.214	-.152
7	*000.000	*000.000	*000.000	.452	.437	.412	.012
8	*000.000	*000.000	*000.000	-.221	-.683	-.713	-.926
9	*000.000	*000.000	*000.000	-1.054	-1.761	-1.772	-1.621
10	-.939	-1.510	-1.685	-1.154	-1.398	-1.456	-1.252
11	-.749	-1.190	*000.000	-.973	-1.184	-1.072	-.792
12	-1.118	-.750	-.627	-.614	-.796	-.605	-.360
13	-.737	-.624	-.501	-.450	-.572	-.442	-.257
14	-.878	-.583	-.471	-.402	-.514	-.388	-.382
15	-.318	-.837	.356	.349	.278	.244	-.263
16	-.479	.175	.237	.314	.187	.153	-.055
17	-.438	.101	.247	.305	.171	.147	-.129
18	-.415	.079	.157	.244	.116	.091	-.145
19	-.591	-.224	-.129	.062	-.113	.170	-.112
20	-1.268	-.781	-.637	-.517	-.596	-.525	-.372
21	-1.790	-1.075	-.695	-.769	-.909	-.780	-.565
22	-1.999	-1.057	-.648	-.806	-.829	-.841	-.619
23	-1.648	-.540	-.297	-.263	-.138	-.151	-.368
24	-.695	-.002	.023	.187	.052	-.024	-.080
25	.984	.314	-1.022	.129	.208	.196	-.230
26	1.005	1.042	.699	-.429	*000.000	-.322	-.152
27	.507	.878	.861	-.161	.056	-.114	-.222
28	.174	.535	.594	.101	-.145	-.122	-.179
29	-.009	.383	.497	.459	.270	.318	.173
30	.737	.908	.915	.813	.688	.709	.601
31	.323	.631	.702	.681	.569	.572	.411
32	.176	.479	.641	.642	.545	.444	.344
33	.016	.326	.469	.450	.373	.298	-.026

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.463	-2.039	-3.562	.865	1.212	1.220	-.048
2	-1.526	-3.113	-4.264	.923	1.256	1.208	-.132
3	-1.631	-3.155	-4.044	.936	1.111	1.015	-.240
4	-1.749	-2.905	-3.544	.787	.787	.582	-.326
5	-1.700	-2.757	-2.962	.520	.420	.197	-.471
6	*000.000	*000.000	*000.000	-.269	-.082	-.180	-.127
7	*000.000	*000.000	*000.000	.416	.416	.410	-.251
8	*000.000	*000.000	*000.000	-.486	-.767	-.859	-.896
9	*000.000	*000.000	*000.000	-1.296	-1.842	-1.749	-1.226
10	-1.104	-1.736	-1.933	-1.485	-1.661	-1.556	-1.138
11	-.880	-1.268	*000.000	-1.113	-1.260	-1.127	-.598
12	-1.137	-.812	-.646	-.754	-.865	-.616	-.495
13	-.884	-.684	-.488	-.568	-.594	-.526	-.461
14	-1.098	-.614	-.472	-.466	-.590	-.507	-.402
15	-.496	-.862	.404	.467	.392	.297	-.249
16	-.682	.172	.360	.417	.328	.160	-.066
17	-.634	.118	.285	.364	.278	.172	-.094
18	-.622	.069	.222	.337	.201	.058	-.149
19	-.716	-.193	-.105	.042	-.109	.043	-.185
20	-1.434	-.723	-.548	-.596	-.637	-.494	-.249
21	-1.945	-.968	-.609	-.846	-.916	-.779	-.379
22	-2.324	-1.000	-.509	-.929	-.886	-.671	-.335
23	-1.749	-.479	-.215	-.293	-.165	-.271	-.297
24	-.786	.005	.043	.136	.085	-.059	-.289
25	.916	-.004	-1.412	.319	.334	.236	-.167
26	1.089	.989	.673	-.424	*000.000	-.197	-.143
27	.653	.967	.984	-.166	.068	-.143	-.218
28	.228	.572	.716	.196	-.126	-.092	-.087
29	-.021	.445	.595	.569	.376	.235	.349
30	.701	.991	1.018	.955	.902	.630	.464
31	.344	.698	.792	.780	.720	.590	.431
32	.135	.491	.650	.559	.575	.420	.319
33	-.041	.346	.500	.520	.432	.209	.028

Table 23. - Continued.

(b) $C_{T,S} = 0.80$, $q_s = 20.04$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.908	-2.802	-4.383	.859	1.175	1.105	-.229
2	-1.926	-3.723	-5.004	.852	1.136	1.097	-.398
3	-1.987	-3.783	-4.738	.872	.966	.924	-.407
4	-2.118	-3.554	-4.234	.617	.680	.582	-.468
5	-1.899	-3.056	-3.247	.371	.246	.140	-.544
6	*000.000	*000.000	*000.000	-.219	-.128	-.087	-.048
7	*000.000	*000.000	*000.000	.285	.406	.457	-.359
8	*000.000	*000.000	*000.000	-.718	-.880	-.746	-.641
9	*000.000	*000.000	*000.000	-1.807	-2.104	-1.713	-.963
10	-1.174	-1.748	-1.889	-1.613	-1.608	-1.308	-.571
11	-.967	-1.287	*000.000	-1.227	-1.263	-.833	-.414
12	-1.132	-.843	-.680	-.824	-.833	-.548	-.284
13	-1.006	-.662	-.516	-.580	-.545	-.410	-.193
14	-1.314	-.634	-.498	-.539	-.604	-.424	-.220
15	-.673	-.839	.403	.450	.312	.241	-.151
16	-.826	.158	.323	.396	.238	.176	-.009
17	-.831	.094	.274	.373	.177	.208	.048
18	-.800	.059	.230	.319	.151	.053	-.032
19	-.872	-.228	-.167	-.005	-.166	.101	-.103
20	-1.641	-.738	-.609	-.677	-.645	-.461	-.258
21	-2.251	-1.054	-.693	-1.009	-.984	-.555	-.512
22	-2.499	-1.006	-.637	-1.053	-.927	-.492	-.339
23	-1.993	-.481	-.390	-.387	-.349	-.273	-.380
24	-.835	-.062	-.036	.115	-.010	-.246	-.291
25	.628	-.466	-1.914	.465	.469	.329	-.239
26	1.132	.945	.641	-.330	*000.000	-.129	-.129
27	.620	.951	.961	-.095	.070	-.113	-.110
28	.248	.632	.762	.408	-.072	-.113	.094
29	-.048	.429	.620	.482	.457	.288	.267
30	.585	.943	1.062	.992	.970	.743	.471
31	.261	.673	.808	.730	.747	.526	.399
32	.111	.475	.662	.592	.578	.389	.302
33	-.038	.287	.473	.441	.355	.157	.056

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.418	-3.682	-5.538	1.063	1.274	1.256	-.505
2	-2.598	-4.599	-5.954	.895	1.117	1.076	-.812
3	-2.581	-4.405	-5.411	.617	.841	.763	-.684
4	-2.620	-4.160	-4.928	.439	.512	.329	-.997
5	-2.363	-3.609	-3.866	.153	.033	-.118	-1.025
6	*000.000	*000.000	*000.000	-.134	-.119	-.052	-.195
7	*000.000	*000.000	*000.000	.194	.308	.340	-.469
8	*000.000	*000.000	*000.000	-.969	-1.159	-1.024	-1.114
9	*000.000	*000.000	*000.000	-1.990	-2.315	-1.856	-1.199
10	-1.269	-1.886	-1.944	-1.809	-1.746	-1.441	-.954
11	-1.038	-1.296	*000.000	-1.242	-1.272	-.829	-.495
12	-1.154	-.897	-.748	-.853	-.857	-.560	-.349
13	-1.355	-.790	-.621	-.634	-.697	-.462	-.287
14	-1.605	-.678	-.599	-.559	-.611	-.389	-.263
15	-.921	-.843	.436	.468	.294	.385	-.136
16	-1.146	.128	.350	.453	.390	.311	.023
17	-1.108	.048	.256	.436	.322	.370	.027
18	-1.053	0.	.154	.330	.247	.178	-.051
19	-1.236	-.280	-.248	.011	-.163	.257	-.002
20	-1.998	-.813	-.694	-.737	-.776	-.376	-.327
21	-2.765	-1.161	-.883	-1.078	-1.104	-.649	-.472
22	-2.909	-1.082	-.751	-1.066	-.985	-.871	-.494
23	-2.051	-.546	-.454	-.397	-.460	-.648	-.573
24	-1.033	-.183	-.096	.134	.088	-.029	-.262
25	.301	-.958	-2.374	.707	.601	.456	-.291
26	1.065	.829	.502	-.046	*000.000	-.139	-.101
27	.728	1.026	1.016	-.059	.100	-.139	-.126
28	.272	.724	.856	.788	.043	-.073	.204
29	-.085	.448	.604	.519	.470	.300	.229
30	.542	.906	1.028	1.025	1.134	.818	.162
31	.249	.652	.759	.750	.708	.551	.241
32	.064	.459	.668	.632	.608	.405	.320
33	-.052	.267	.445	.475	.400	.266	.012

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.155	-4.571	-6.311	1.122	1.392	1.358	-.751
2	-3.239	-5.215	-6.428	.788	1.058	.911	-1.047
3	-3.243	-5.122	-6.030	.598	.766	.697	-1.030
4	-3.011	-4.584	-5.143	.288	.345	.262	-1.063
5	-2.551	-3.703	-3.917	.007	-.072	-.271	-1.020
6	*000.000	*000.000	*000.000	-.006	-.133	.013	-.135
7	*000.000	*000.000	*000.000	.111	.184	.122	-.736
8	*000.000	*000.000	*000.000	-1.102	-1.271	-1.134	-1.258
9	*000.000	*000.000	*000.000	-2.129	-2.309	-1.638	-.816
10	-1.415	-2.019	-2.057	-2.010	-1.863	-1.302	-.630
11	-1.197	-1.460	*000.000	-1.358	-1.307	-.711	-.137
12	-1.130	-.840	-.737	-.788	-.774	-.470	.141
13	-1.581	-.787	-.639	-.660	-.594	-.387	-.332
14	-1.898	-.713	-.624	-.570	-.637	-.380	-.271
15	-1.111	-.876	.507	.509	.235	.346	-.077
16	-1.322	.109	.321	.488	.353	.211	-.065
17	-1.348	.014	.249	.430	.317	.274	.005
18	-1.238	-.038	.171	.393	.284	.227	.069
19	-1.421	-.384	-.228	-.010	-.157	.144	.060
20	-2.316	-.917	-.786	-.798	-.715	-.547	-.270
21	-2.938	-1.125	-.966	-1.070	-1.066	-.698	-.294
22	-3.076	-1.064	-.883	-1.079	-1.016	-.532	-.379
23	-2.041	-.580	-.553	-.409	-.492	-.563	-.428
24	-.990	-.233	-.129	.111	.005	-.199	-.320
25	-.007	-1.556	-3.053	.806	.733	.365	-.334
26	1.086	.749	.408	-.101	*000.000	-.158	-.139
27	.810	1.062	1.047	-.063	.040	-.071	-.233
28	.312	.742	.859	.746	.134	.041	.149
29	-.105	.476	.665	.525	.495	.255	.256
30	.492	.935	1.080	1.065	1.223	.942	.104
31	.154	.709	.823	.768	.757	.542	.382
32	.066	.492	.656	.585	.583	.290	.225
33	-.049	.232	.426	.433	.353	.177	-.054

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.609	-4.824	-6.244	1.088	1.298	1.128	-.966
2	-3.840	-5.741	-6.834	.691	1.007	.937	-.954
3	-3.922	-5.834	-6.691	.483	.697	.700	-.915
4	-3.189	-4.568	-4.987	.166	.297	.154	-.948
5	-2.800	-3.913	-3.920	-.075	-.108	-.171	-1.057
6	*000.000	*000.000	*000.000	-.026	-.108	-.073	-.114
7	*000.000	*000.000	*000.000	-.283	-.119	.435	-.389
8	*000.000	*000.000	*000.000	-1.328	-1.245	-.720	-.480
9	*000.000	*000.000	*000.000	-2.396	-2.389	-1.572	-.865
10	-1.541	-2.078	-2.001	-2.099	-1.657	-.922	-.357
11	-1.304	-1.516	*000.000	-1.423	-1.231	-.529	-.244
12	-1.219	-.977	-.791	-.918	-.700	-.285	-.215
13	-1.822	-.836	-.684	-.689	-.575	-.360	-.199
14	-2.015	-.802	-.650	-.632	-.558	-.356	-.275
15	-1.158	-.846	.397	.386	.228	.297	-.136
16	-1.472	.057	.316	.494	.380	.292	.068
17	-1.414	-.077	.219	.438	.354	.276	-.043
18	-1.280	-.122	.127	.299	.260	.157	.011
19	-1.506	-.478	-.275	-.082	-.107	.241	-.176
20	-2.465	-1.010	-.826	-.776	-.714	-.459	-.461
21	-3.187	-1.246	-.991	-1.043	-.869	-.487	-.499
22	-3.205	-1.226	-1.009	-1.161	-1.057	-.736	-.801
23	-1.870	-.699	-.611	-.410	-.443	-.306	-.435
24	-.821	-.320	-.150	.076	-.007	-.141	-.260
25	-.457	-1.878	-3.313	.870	.825	.440	-.442
26	.915	.725	.368	-.128	*000.000	-.018	-.068
27	.744	1.019	.965	.014	.066	-.014	-.250
28	.293	.735	.871	.808	.320	.047	-.219
29	-.156	.419	.650	.477	.435	.297	.154
30	.423	.904	1.033	.974	1.186	.939	.120
31	.155	.683	.788	.721	.758	.536	.078
32	.018	.447	.629	.550	.567	.350	.118
33	-.038	.198	.414	.397	.367	.263	.141

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.677	-5.530	-6.879	1.135	1.293	1.051	-.864
2	-4.741	-6.372	-7.352	.611	.877	.695	-1.044
3	-4.280	-5.968	-6.601	.425	.637	.618	-.691
4	-3.879	-5.289	-5.467	.181	.249	.173	-.791
5	-2.981	-4.080	-3.906	-.154	-.180	-.164	-.545
6	*000.000	*000.000	*000.000	.049	-.087	.012	.059
7	*000.000	*000.000	*000.000	-.161	.051	.247	-.184
8	*000.000	*000.000	*000.000	-1.365	-1.180	-.533	-.276
9	*000.000	*000.000	*000.000	-2.514	-2.379	-1.329	-.386
10	-1.711	-2.229	-2.069	-2.138	-1.640	-.815	-.268
11	-1.354	-1.556	*000.000	-1.408	-1.145	-.468	-.115
12	-1.227	-.943	-.758	-.832	-.703	-.327	-.152
13	-1.992	-.883	-.706	-.685	-.581	-.355	-.241
14	-2.365	-.861	-.695	-.523	-.454	-.281	-.129
15	-1.206	-.765	.387	.443	.151	.257	.021
16	-1.324	.100	.270	.516	.344	.342	.098
17	-1.194	-.020	.214	.456	.344	.301	.095
18	-1.222	-.130	.108	.334	.212	.207	.047
19	-1.541	-.454	-.289	-.025	-.076	.234	-.024
20	-2.574	-1.116	-.930	-.779	-.637	-.413	-.318
21	-2.992	-1.227	-1.064	-.942	-.859	-.286	-.382
22	-2.846	-1.156	-1.024	-.929	-.804	-.593	-.487
23	-1.606	-.793	-.706	-.388	-.528	-.393	-.366
24	-.747	-.256	-.144	.088	-.113	-.208	-.163
25	-1.359	-2.268	-3.506	.938	.826	.188	-.291
26	.544	.753	.340	-.078	*000.000	-.038	-.081
27	.533	1.127	1.019	.059	.088	-.131	.007
28	.154	.731	.839	.747	.628	.221	.205
29	-.186	.402	.603	.460	.355	.235	.278
30	.321	.961	.957	1.118	1.178	.860	.208
31	.016	.726	.712	.745	.654	.387	.300
32	-.021	.465	.614	.596	.503	.361	.264
33	-.007	.254	.376	.441	.290	.189	.180

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-4.598	-5.977	-6.887	1.044	1.230	.663	-.575
2	-5.105	-6.853	-7.172	.586	.871	.608	-.663
3	-4.781	-6.528	-6.629	.348	.496	.272	-.670
4	-4.187	-5.691	-5.592	.008	.202	.032	-.793
5	-3.256	-4.407	-3.968	-.199	-.148	-.101	-.635
6	*000.000	*000.000	*000.000	-.002	-.070	-.075	-.140
7	*000.000	*000.000	*000.000	.403	-.171	.395	-.069
8	*000.000	*000.000	*000.000	-1.400	-1.007	-.339	-.231
9	*000.000	*000.000	*000.000	-2.641	-2.450	-1.521	-.486
10	-1.838	-2.545	-2.282	-2.491	-1.809	-.993	-.341
11	-1.295	-1.584	*000.000	-1.406	-1.040	-.408	-.194
12	-1.273	-.992	-.796	-.834	-.646	-.238	-.108
13	-2.033	-.891	-.727	-.653	-.462	-.198	-.151
14	-1.960	-.873	-.741	-.538	-.371	-.218	-.117
15	-1.045	-.659	.459	.453	.157	.256	.051
16	-1.102	.121	.246	.511	.389	.298	-.012
17	-1.186	-.010	.182	.405	.364	.260	-.077
18	-.947	-.096	.094	.330	.244	.158	.032
19	-1.226	-.501	-.325	-.065	-.030	.172	-.102
20	-2.130	-1.103	-.930	-.720	-.468	-.278	-.228
21	-2.514	-1.235	-1.041	-.866	-.626	-.326	-.336
22	-2.187	-1.100	-.989	-.818	-.546	-.376	-.387
23	-1.135	-.674	-.683	-.348	-.348	-.297	-.229
24	-.684	-.272	-.154	.061	-.054	-.132	-.089
25	-2.306	-2.660	-3.619	.968	.871	.097	-.290
26	.227	.629	.326	-.198	*000.000	.031	-.069
27	.246	1.061	.963	.053	.123	-.086	-.081
28	.102	.745	.879	.748	.645	.081	-.158
29	-.239	.402	.657	.456	.387	.288	.168
30	.229	1.000	.847	1.076	1.163	.675	.272
31	.034	.776	.666	.769	.661	.496	.264
32	-.033	.525	.561	.579	.484	.271	.215
33	.014	.249	.347	.409	.276	.193	.167

Table 23. - Continued.

(b) $C_{T,S} = 0.80$, $q_S = 20.04$

$\alpha = 65°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-5.338	-6.902	-6.964	.982	1.242	.535	-.810
2	-5.659	-7.614	-7.453	.464	.797	.391	-.600
3	-4.895	-7.149	-6.723	.295	.527	.368	-.423
4	-4.270	-6.124	-5.615	-.018	.178	.252	-.368
5	-2.994	-4.575	-3.939	-.224	-.104	.158	-.237
6	*000.000	*000.000	*000.000	.006	-.085	-.115	-.047
7	*000.000	*000.000	*000.000	-.602	-.155	.425	-.065
8	*000.000	*000.000	*000.000	-1.443	-1.028	-.349	-.235
9	*000.000	*000.000	*000.000	-2.355	-1.899	-.811	-.309
10	-1.614	-2.453	-2.149	-2.335	-1.561	-.805	-.287
11	-1.260	-1.696	*000.000	-1.439	-.992	-.513	-.261
12	-1.272	-1.047	-.800	-.822	-.578	-.308	-.131
13	-1.842	-.991	-.751	-.662	-.467	-.272	-.157
14	-1.930	-.961	-.772	-.591	-.481	-.287	-.182
15	-.912	-.681	.384	.374	.115	.205	-.185
16	-1.019	.094	.228	.436	.342	.203	.008
17	-.974	-.078	.146	.391	.399	.243	-.008
18	-.937	-.121	.094	.277	.322	.172	-.029
19	-1.033	-.475	-.311	-.056	-.041	.160	-.038
20	-1.795	-1.064	-.901	-.738	-.546	-.404	-.338
21	-2.128	-1.207	-1.133	-.877	-.581	-.382	-.408
22	-1.800	-1.121	-1.077	-.779	-.654	-.480	-.521
23	-.982	-.643	-.651	-.409	-.381	-.409	-.377
24	-.603	-.259	-.114	-.018	-.115	-.182	-.091
25	-3.371	-3.316	-3.857	.936	.871	-.022	-.256
26	-.273	.410	.373	-.271	*000.000	-.006	-.107
27	-.009	.906	.976	.103	.137	-.067	-.115
28	.074	.639	.840	.749	.484	.101	.181
29	-.225	.320	.548	.344	.353	.218	.141
30	.185	.926	.697	1.013	1.067	.605	.102
31	.016	.725	.504	.752	.670	.416	.087
32	-.038	.425	.416	.556	.488	.310	.216
33	.093	.201	.294	.393	.295	.187	.046

$\alpha = 70°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-5.469	-7.311	-6.913	.911	1.122	.154	-.253
2	-5.641	-8.376	-7.621	.393	.845	.389	-.449
3	-4.761	-7.368	-6.683	.143	.516	.168	-.306
4	-3.539	-6.063	-5.484	-.152	.155	.197	-.408
5	-2.668	-4.863	-4.089	-.354	-.144	.177	-.225
6	*000.000	*000.000	*000.000	-.061	-.093	-.056	-.078
7	*000.000	*000.000	*000.000	-.736	-.199	.322	-.143
8	*000.000	*000.000	*000.000	-1.667	-1.120	-.231	-.266
9	*000.000	*000.000	*000.000	-2.595	-1.871	-.686	-.336
10	-1.513	-2.502	-2.078	-2.361	-1.369	-.550	-.331
11	-1.050	-1.520	*000.000	-1.466	-.859	-.353	-.207
12	-1.214	-1.035	-.863	-.879	-.574	-.221	-.144
13	-1.864	-.952	-.749	-.565	-.331	-.242	-.055
14	-1.507	-.899	-.747	-.557	-.312	-.250	-.241
15	-.835	-.660	.353	.324	.066	.166	-.109
16	-1.066	.062	.225	.389	.286	.186	-.004
17	-.860	-.048	.150	.382	.360	.240	.042
18	-.809	-.126	.038	.291	.300	.153	.011
19	-.946	-.462	-.272	-.018	-.060	.116	-.149
20	-1.580	-.958	-.852	-.766	-.387	-.245	-.248
21	-1.643	-1.108	-.984	-.823	-.571	-.390	-.392
22	-1.410	-1.044	-1.077	-1.025	-.823	-.597	-.479
23	-.839	-.640	-.570	-.393	-.259	-.278	-.255
24	-.428	-.269	-.130	-.178	-.141	-.205	-.139
25	-4.026	-3.632	-3.712	.904	.814	-.031	-.212
26	-.865	.095	.339	-.317	*000.000	.028	-.074
27	-.277	.587	.961	.013	.168	.021	-.012
28	-.073	.464	.828	.681	.368	.148	.216
29	-.205	.233	.478	.329	.345	.219	.177
30	.033	.813	.524	1.005	1.085	.803	.139
31	-.099	.611	.424	.644	.572	.388	.168
32	-.012	.388	.380	.493	.418	.275	.235
33	.046	.127	.246	.253	.145	.117	.046

$\alpha = 75°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-5.172	-6.960	-6.305	.979	1.157	-.212	-.073
2	-4.806	-7.743	-6.852	.543	1.015	.008	-.234
3	-4.630	-7.868	-6.976	.296	.722	.361	-.127
4	-3.169	-5.976	-5.160	.045	.347	-.022	-.161
5	-2.317	-4.545	-3.853	-.411	-.260	-.197	-.311
6	*000.000	*000.000	*000.000	-.144	-.045	-.099	-.072
7	*000.000	*000.000	*000.000	-.491	.218	.132	-.128
8	*000.000	*000.000	*000.000	-1.515	-.994	-.303	-.235
9	*000.000	*000.000	*000.000	-2.342	-1.426	-.209	-.290
10	-1.307	-2.170	-1.854	-2.286	-.940	-.101	-.197
11	-.902	-1.322	*000.000	-1.192	-.596	-.232	-.150
12	-.982	-.950	-.753	-.705	-.272	-.118	-.133
13	-1.268	-.806	-.695	-.587	-.337	-.276	-.226
14	-1.174	-.762	-.680	-.522	-.329	-.257	-.239
15	-.690	-.595	.341	.286	.093	.237	-.230
16	-.808	.086	.250	.427	.386	.229	-.054
17	-.753	-.046	.107	.322	.309	.179	-.032
18	-.673	-.111	.045	.216	.285	.074	-.079
19	-.727	-.397	-.296	-.155	-.096	.042	-.197
20	-1.174	-.908	-.795	-.737	-.513	-.370	-.408
21	-1.341	-.949	-.915	-.795	-.458	-.526	-.383
22	-1.000	-.756	-.803	-.533	-.340	-.383	-.383
23	-.661	-.646	-.632	-.501	-.422	-.385	-.312
24	-.338	-.177	-.113	-.159	-.154	-.183	-.151
25	-4.177	-4.211	-3.449	.822	.720	-.140	-.151
26	-.897	-.265	.316	-.299	*000.000	.107	-.051
27	-.346	.344	.853	-.139	.234	-.036	-.021
28	-.056	.419	.823	.667	.009	.026	.025
29	-.089	.252	.354	.304	.360	.294	.235
30	.156	.769	.515	1.023	1.049	.414	.130
31	.021	.546	.420	.577	.531	.360	.184
32	.076	.342	.344	.437	.407	.270	.169
33	.090	.141	.231	.224	.232	.202	.089

$\alpha = 80°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-1.539	-2.775	-3.551	.932	1.126	-.036	-.497
2	-1.135	-2.375	-4.139	.523	.938	.249	-.261
3	-1.312	-1.726	-3.863	.255	.668	-.127	-.290
4	-.885	-1.229	-2.837	.091	.434	.323	-.220
5	-.942	-.889	-1.136	-.193	.065	.119	-.323
6	*000.000	*000.000	*000.000	-.089	-.032	-.064	-.171
7	*000.000	*000.000	*000.000	-.430	-.017	.071	-.287
8	*000.000	*000.000	*000.000	-1.303	-.610	-.167	-.331
9	*000.000	*000.000	*000.000	-2.261	-1.139	-.224	-.204
10	-1.076	-.917	-.756	-2.154	-.940	-.183	-.226
11	-.884	-.989	*000.000	-1.197	-.545	-.288	-.148
12	-.861	-.750	-.814	-.690	-.501	-.157	-.157
13	-.731	-.676	-.614	-.564	-.366	-.244	-.276
14	-.711	-.624	-.622	-.514	-.432	-.159	-.229
15	-.467	-.624	.298	.339	.105	.275	-.198
16	-.545	.109	.170	.335	.208	.126	-.092
17	-.448	-.048	.099	.318	.241	.100	-.155
18	-.389	-.052	.057	.206	.165	.098	-.202
19	-.495	-.380	-.235	-.017	-.074	.016	-.226
20	-.758	-.678	-.707	-.496	-.330	-.357	-.363
21	-.758	-.726	-.741	-.661	-.450	-.492	-.378
22	-.658	-.698	-.680	-.542	-.442	-.402	-.474
23	-.501	-.523	-.504	-.445	-.547	-.447	-.505
24	-.430	-.382	-.161	-.186	-.218	-.193	-.242
25	-1.619	-2.120	-2.068	.854	.382	-.189	-.237
26	-.493	.080	.597	-.159	*000.000	.035	-.069
27	-.148	.243	.918	-.127	.164	-.099	-.093
28	-.016	.322	.717	.631	-.046	-.042	-.028
29	.005	.231	.342	.332	.249	.204	.200
30	.110	.641	.552	.997	.797	.385	.163
31	.046	.450	.427	.565	.551	.352	.087
32	.060	.319	.402	.464	.331	.234	.181
33	.130	.148	.267	.309	.283	.244	-.001

Table 23. - Continued.

(c) $C_{T,s} = 0.60$, $q_s = 21.68$

$\alpha = 5^\circ$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.969	.649	.391	-.196	.559	.597	.504
2	.382	.075	-.054	.503	1.071	1.161	.941
3	.173	-.186	-.147	.655	1.163	1.164	.781
4	-.260	-.650	-.621	.805	1.122	1.061	.655
5	-.588	-.981	-.926	.719	.925	.853	.518
6	*000.000	*000.000	*000.000	-.314	-.232	-.471	-.449
7	*000.000	*000.000	*000.000	.516	.684	.656	.450
8	*000.000	*000.000	*000.000	-.054	-.175	-.184	-.258
9	*000.000	*000.000	*000.000	-.895	-1.040	-1.045	-.941
10	-.589	-.950	-1.115	-1.086	-.994	-.897	-.770
11	-.658	-1.029	*000.000	-.926	-.979	-.840	-.682
12	-.993	-.687	-.636	-.615	-.648	-.540	-.416
13	-.409	-.601	-.516	-.446	-.439	-.405	-.270
14	-.464	-.523	-.458	-.400	-.335	-.341	-.218
15	-.192	-.205	-.027	-.054	.007	-.110	-.118
16	.147	.021	.175	-.067	.018	-.047	-.094
17	.077	.074	.206	-.047	.003	.024	-.080
18	.151	.055	.183	-.032	.028	-.019	-.048
19	-.082	-.188	-.129	-.041	-.078	-.010	-.117
20	-.618	-.669	-.572	-.267	-.165	-.236	-.324
21	-.898	-.954	-.802	-.492	-.291	-.385	-.397
22	-1.043	-.974	-.811	-.499	-.140	-.292	-.312
23	-.906	-.390	-.263	-.144	-.052	-.031	-.124
24	-.587	.047	.143	-.142	-.102	-.062	-.104
25	.905	1.002	.567	-.650	-.257	-.412	-.357
26	.481	.729	.496	-.706	*000.000	-.716	.087
27	-.069	.109	.010	-.250	.004	-.342	-.410
28	-.054	-.009	.026	-.295	-.200	-.282	-.261
29	.043	.192	.165	-.061	-.050	.022	.008
30	.924	.927	.895	.047	.024	.133	.174
31	.466	.582	.573	.041	-.002	.079	.240
32	.265	.447	.483	.229	.072	.104	.314
33	.074	.355	.381	.269	.110	.153	-.061

$\alpha = 10^\circ$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.688	.259	-.335	.242	.817	.913	.800
2	-.053	-.750	-.905	.554	1.225	1.235	.914
3	-.358	-1.048	-1.086	.729	1.187	1.202	.789
4	-.691	-1.391	-1.371	.609	1.072	.993	.617
5	-.846	-1.489	-1.398	.571	.718	.637	.273
6	*000.000	*000.000	*000.000	-.183	-.129	-.307	-.320
7	*000.000	*000.000	*000.000	.442	.566	.556	.405
8	*000.000	*000.000	*000.000	-.344	-.428	-.547	-.608
9	*000.000	*000.000	*000.000	-1.435	-1.683	-1.656	-1.401
10	-.831	-1.274	-1.351	-1.318	-1.375	-1.269	-1.101
11	-.726	-1.085	*000.000	-.997	-1.123	-.963	-.793
12	-1.033	-.690	-.643	-.643	-.727	-.590	-.443
13	-.522	-.627	-.532	-.474	-.500	-.445	-.331
14	-.529	-.543	-.415	-.375	-.386	-.358	-.253
15	-.102	-.261	.043	.119	.155	.055	-.234
16	-.019	.109	.218	.111	.141	.045	-.053
17	-.027	.084	.203	.107	.104	.027	.033
18	-.072	.086	.200	.062	.121	.036	-.052
19	-.210	-.169	-.165	-.055	.015	.036	-.104
20	-.817	-.708	-.591	-.301	-.248	-.396	-.485
21	-1.186	-1.017	-.757	-.546	-.356	-.593	-.579
22	-1.273	-.968	-.671	-.545	-.203	-.602	-.462
23	-1.180	-.471	-.245	-.102	-.020	-.182	-.343
24	-.623	.092	.147	-.019	-.006	.037	-.149
25	1.128	1.057	.442	-.436	-.020	-.125	-.059
26	.811	.959	.617	-.374	*000.000	-.517	.052
27	.207	.453	.428	-.179	-.014	-.180	-.299
28	.072	.195	.260	-.088	-.126	-.134	.018
29	.054	.258	.325	.049	.041	.092	.165
30	.888	.933	.908	.267	.168	.468	.627
31	.476	.626	.630	.461	.147	.418	.434
32	.228	.427	.480	.370	.306	.399	.347
33	.070	.351	.402	.334	.226	.326	-.088

$\alpha = 15^\circ$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.374	-.481	-1.272	.555	1.066	1.078	.734
2	-.537	-1.492	-1.856	.705	1.247	1.172	.725
3	-.854	-1.848	-1.940	.552	1.196	1.088	.668
4	-1.089	-1.940	-1.951	.454	.881	.745	.364
5	-1.265	-2.063	-1.946	.299	.544	.313	-.024
6	*000.000	*000.000	*000.000	-.124	-.029	-.184	-.165
7	*000.000	*000.000	*000.000	.223	.437	.384	.253
8	*000.000	*000.000	*000.000	-.605	-.729	-.809	-.904
9	*000.000	*000.000	*000.000	-1.539	-2.009	-2.002	-1.756
10	-.980	-1.468	-1.608	-1.494	-1.592	-1.599	-1.422
11	-.849	-1.254	*000.000	-1.191	-1.318	-1.205	-.970
12	-1.157	-.779	-.689	-.738	-.846	-.742	-.579
13	-.685	-.699	-.567	-.564	-.622	-.561	-.403
14	-.752	-.618	-.473	-.471	-.492	-.464	-.370
15	-.197	-.352	.190	.308	.324	.188	-.313
16	-.278	.138	.228	.187	.196	.097	-.113
17	-.302	.092	.214	.190	.144	.118	-.008
18	-.243	.042	.166	.137	.076	.042	-.053
19	-.393	-.187	-.197	.011	-.080	.112	-.156
20	-1.075	-.805	-.635	-.444	-.455	-.491	-.560
21	-1.500	-1.011	-.745	-.726	-.616	-.725	-.666
22	-1.758	-1.005	-.721	-.725	-.487	-.781	-.647
23	-1.611	-.510	-.293	-.141	-.065	-.242	-.470
24	-.682	.076	.114	.071	-.007	-.057	-.161
25	1.056	.741	-.211	.125	.253	.213	.199
26	.922	.994	.564	-.178	*000.000	-.130	-.032
27	.423	.718	.631	-.095	.017	-.161	-.226
28	.174	.383	.479	.037	-.009	-.125	.239
29	.075	.363	.426	.387	.274	.239	.270
30	.775	.922	.883	.683	.395	.660	.614
31	.374	.608	.570	.468	.459	.504	.500
32	.226	.468	.519	.563	.487	.406	.386
33	.040	.357	.457	.432	.403	.324	-.051

$\alpha = 20^\circ$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.313	-1.727	-2.856	.759	1.255	1.337	.732
2	-1.207	-2.546	-3.410	.704	1.148	1.115	.493
3	-1.445	-2.737	-3.169	.477	.992	.949	.424
4	-1.598	-2.754	-3.127	.292	.606	.550	.065
5	-1.702	-2.736	-2.767	.037	.172	.036	-.364
6	*000.000	*000.000	*000.000	-.119	.012	.033	-.021
7	*000.000	*000.000	*000.000	.050	.065	-.105	-.484
8	*000.000	*000.000	*000.000	-1.034	-1.221	-1.225	-1.442
9	*000.000	*000.000	*000.000	-1.991	-2.478	-2.373	-2.097
10	-1.250	-1.823	-1.973	-1.918	-2.056	-1.940	-1.645
11	-.944	-1.348	*000.000	-1.320	-1.517	-1.278	-1.049
12	-1.329	-.911	-.782	-.849	-1.017	-.801	-.608
13	-.811	-.724	-.548	-.585	-.703	-.557	-.419
14	-.953	-.652	-.498	-.485	-.583	-.463	-.399
15	-.381	-.498	.329	.390	.344	.360	-.404
16	-.539	.115	.257	.359	.234	.191	-.174
17	-.625	.064	.239	.344	.253	.275	-.108
18	-.506	.015	.133	.237	.146	.106	-.122
19	-.677	-.279	-.220	.010	-.177	.107	-.223
20	-1.485	-.858	-.701	-.644	-.751	-.720	-.603
21	-1.999	-1.120	-.772	-.952	-.990	-.903	-.678
22	-2.455	-1.178	-.740	-1.002	-.999	-.975	-.755
23	-2.066	-.579	-.306	-.338	-.221	-.331	-.465
24	-.876	.006	.080	.131	-.025	.031	-.122
25	.778	.125	-1.049	.379	.444	.535	.500
26	.999	.978	.573	-.099	*000.000	-.009	-.026
27	.581	.854	.800	-.050	-.038	-.012	-.136
28	.241	.550	.657	.382	.032	-.019	.288
29	.054	.411	.513	.514	.469	.476	.406
30	.673	.986	.970	.944	.926	1.012	.756
31	.373	.671	.742	.749	.724	.638	.636
32	.188	.520	.628	.608	.598	.504	.509
33	.026	.345	.457	.447	.413	.355	.023

$\alpha = 25^\circ$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.850	-2.772	-4.214	.875	1.297	1.289	.282
2	-1.987	-3.861	-4.850	.403	1.003	.859	-.019
3	-2.001	-3.742	-4.492	.308	.717	.600	-.090
4	-2.253	-3.641	-4.231	.038	.309	.123	-.528
5	-2.024	-3.177	-3.403	-.161	-.137	-.367	-.690
6	*000.000	*000.000	*000.000	-.039	-.060	-.090	-.107
7	*000.000	*000.000	*000.000	-.454	-.536	-.613	-.905
8	*000.000	*000.000	*000.000	-1.431	-1.622	-1.658	-1.712
9	*000.000	*000.000	*000.000	-2.528	-3.062	-2.961	-2.600
10	-1.387	-2.005	-2.232	-2.222	-2.291	-2.166	-1.813
11	-1.136	-1.532	*000.000	-1.562	-1.718	-1.524	-1.187
12	-1.368	-.913	-.774	-.908	-1.050	-.870	-.620
13	-.953	-.766	-.586	-.625	-.739	-.641	-.548
14	-1.221	-.677	-.512	-.535	-.681	-.608	-.480
15	-.598	-.565	.378	.444	.387	.274	-.504
16	-.780	.131	.288	.429	.324	.266	-.288
17	-.837	.034	.230	.406	.260	.133	-.234
18	-.788	.012	.120	.350	.178	.086	-.222
19	-.898	-.279	-.198	-.030	-.254	.064	-.230
20	-1.811	-.888	-.725	-.681	-.856	-.844	-.673
21	-2.529	-1.196	-.784	-1.008	-1.090	-.973	-.669
22	-2.836	-1.180	-.708	-1.060	-.842	-.713	-.505
23	-2.209	-.592	-.308	-.372	-.322	-.399	-.406
24	-.985	-.047	.031	.118	.024	-.124	-.149
25	.539	-.513	-1.926	.688	.782	.748	.339
26	.990	.916	.514	-.325	*000.000	.007	-.091
27	.671	.947	.870	.190	-.085	.005	-.208
28	.264	.633	.731	.702	.279	.210	.417
29	.017	.463	.620	.556	.519	.457	.318
30	.550	.900	.954	1.083	.984	.990	.676
31	.298	.690	.796	.770	.755	.691	.599
32	.113	.492	.633	.598	.596	.479	.486
33	-.006	.328	.435	.458	.429	.341	.071

$\alpha = 30^\circ$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.490	-3.793	-5.227	.849	1.313	1.249	-.044
2	-2.642	-5.052	-6.319	.458	.966	.885	-.456
3	-2.653	-4.823	-5.752	.185	.579	.622	-.555
4	-2.655	-4.346	-4.962	-.041	.219	.105	-.703
5	-2.485	-3.822	-4.072	-.335	-.279	-.346	-.754
6	*000.000	*000.000	*000.000	.059	-.006	-.022	-.119
7	*000.000	*000.000	*000.000	-.529	-.465	-.432	-.607
8	*000.000	*000.000	*000.000	-1.573	-1.635	-1.480	-1.241
9	*000.000	*000.000	*000.000	-2.578	-2.743	-2.201	-1.380
10	-1.441	-2.118	-2.343	-2.331	-1.916	-1.348	-.532
11	-1.201	-1.561	*000.000	-1.513	-1.209	-.685	-.530
12	-1.316	-.943	-.774	-.699	-.519	-.513	-.498
13	-1.047	-.733	-.570	-.516	-.558	-.567	-.548
14	-1.368	-.676	-.527	-.487	-.517	-.462	-.605
15	-.749	-.678	.457	.449	.346	.338	-.447
16	-1.079	.144	.320	.505	.316	.261	-.188
17	-1.021	.067	.284	.454	.271	.291	-.179
18	-1.136	-.031	.185	.326	.153	.041	-.389
19	-1.123	-.285	-.225	-.128	-.223	.070	-.322
20	-2.067	-.847	-.749	-.746	-.740	-.596	-.543
21	-2.849	-1.139	-.858	-.746	-.802	-.722	-.632
22	-2.966	-.991	-.699	-.667	-.601	-.460	-.513
23	-2.225	-.511	-.363	-.381	-.388	-.441	-.395
24	-1.168	-.105	-.020	-.272	-.403	-.339	-.347
25	.237	-1.289	-2.666	.901	.956	.904	.138
26	1.011	.748	.381	-.315	*000.000	.044	-.140
27	.777	1.003	.975	.357	-.086	.048	.200
28	.391	.739	.855	.765	.369	.306	.426
29	.033	.538	.713	.605	.558	.476	.366
30	.531	.909	1.049	1.114	1.090	.981	.594
31	.306	.737	.846	.769	.803	.749	.522
32	.126	.506	.661	.573	.561	.455	.361
33	.035	.330	.555	.352	.319	.216	-.007

Table 23. - Continued.

(c) $C_{T,s} = 0.60$, $q_s = 21.68$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.067	-4.897	-6.452	.929	1.269	1.230	-.348
2	-3.149	-5.985	-7.188	.331	.835	.673	-.692
3	-3.448	-6.074	-7.036	.043	.495	.415	-.856
4	-3.214	-5.189	-5.640	-.217	.062	-.041	-.888
5	-2.570	-3.982	-4.000	-.488	-.398	-.408	-.813
6	*000.000	*000.000	*000.000	.048	.020	.069	-.033
7	*000.000	*000.000	*000.000	-.623	-.470	-.330	-.523
8	*000.000	*000.000	*000.000	-1.747	-1.658	-1.299	-1.038
9	*000.000	*000.000	*000.000	-2.785	-2.779	-2.053	-.986
10	-1.640	-2.316	-2.498	-2.571	-1.997	-1.170	-.427
11	-1.223	-1.465	*000.000	-1.297	-.647	-.487	-.362
12	-1.325	-.871	-.818	-.591	-.487	-.451	-.516
13	-1.199	-.678	-.681	-.478	-.512	-.514	-.565
14	-1.573	-.607	-.664	-.616	-.563	-.498	-.571
15	-.847	-.586	.459	.504	.285	.244	-.365
16	-1.198	.197	.364	.538	.370	.274	-.172
17	-1.213	.066	.244	.461	.378	.293	-.167
18	-1.075	.013	.167	.346	.262	.180	-.166
19	-1.365	-.293	-.261	-.072	-.150	.133	-.291
20	-2.306	-.801	-.798	-.745	-.655	-.545	-.584
21	-3.034	-.899	-.849	-.653	-.660	-.470	-.458
22	-3.123	-.793	-.794	-.528	-.472	-.504	-.454
23	-1.926	-.461	-.517	-.503	-.482	-.483	-.416
24	-1.142	-.191	-.088	-.414	-.428	-.420	-.364
25	-.140	-2.107	-3.563	1.164	1.086	.919	.097
26	.949	.645	.251	-.364	*000.000	.097	-.193
27	.837	1.036	.971	.426	-.084	.080	.347
28	.341	.789	.891	.779	.702	.402	.389
29	.017	.559	.728	.552	.509	.363	.286
30	.440	.961	1.050	1.179	1.217	.996	.615
31	.248	.795	.861	.781	.741	.726	.548
32	.135	.537	.673	.581	.547	.393	.357
33	.030	.350	.485	.318	.283	.205	.018

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.000	-6.015	-7.176	.866	1.167	1.039	-.799
2	-4.118	-7.018	-7.600	.040	.566	.425	-.922
3	-3.862	-6.366	-6.529	-.176	.167	.148	-.920
4	-3.430	-5.201	-4.971	-.516	-.240	-.277	-.685
5	-2.819	-4.158	-3.139	-.635	-.575	-.570	-.723
6	*000.000	*000.000	*000.000	.135	.082	.100	-.114
7	*000.000	*000.000	*000.000	-1.085	-.744	-.555	-.647
8	*000.000	*000.000	*000.000	-1.991	-1.646	-1.278	-1.097
9	*000.000	*000.000	*000.000	-2.697	-2.495	-1.735	-.801
10	-1.601	-2.085	-2.276	-2.416	-1.695	-1.058	-.573
11	-1.229	-1.389	*000.000	-1.367	-.714	-.563	-.474
12	-1.489	-.907	-.835	-.549	-.566	-.617	-.536
13	-1.321	-.731	-.687	-.505	-.470	-.463	-.638
14	-2.024	-.787	-.670	-.515	-.672	-.565	-.463
15	-1.000	-.617	.496	.493	.181	.240	-.365
16	-1.303	.168	.332	.573	.311	.304	-.093
17	-1.331	.036	.286	.510	.386	.341	-.054
18	-1.208	-.034	.188	.362	.173	.107	-.278
19	-1.457	-.399	-.251	-.149	-.179	.115	-.441
20	-2.532	-.984	-.837	-.871	-.721	-.675	-.755
21	-3.052	-.980	-.922	-.721	-.652	-.523	-.545
22	-3.042	-.876	-.760	-.658	-.734	-.577	-.575
23	-1.684	-.664	-.546	-.478	-.569	-.521	-.792
24	-.847	-.327	-.177	-.405	-.418	-.384	-.554
25	-.774	-2.965	-4.332	1.201	1.163	.967	.035
26	.904	.483	.093	-.475	*000.000	.105	-.161
27	.869	1.014	.944	.804	-.109	.167	.235
28	.420	.851	.979	.786	1.005	.357	.288
29	-.024	.569	.771	.536	.487	.368	.329
30	.394	.965	1.054	1.163	1.229	1.066	.677
31	.248	.771	.833	.773	.739	.570	.328
32	.118	.558	.693	.592	.532	.315	.308
33	.070	.298	.455	.314	.266	.157	-.104

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.884	-6.921	-8.125	.548	1.104	.886	-1.117
2	-4.535	-6.866	-6.862	-.310	.287	.116	-1.063
3	-4.546	-6.682	-6.619	-.632	-.146	-.213	-.986
4	-3.885	-5.283	-4.380	-.930	-.567	-.619	-.772
5	-2.930	-3.135	-2.358	-1.052	-.848	-.799	-.661
6	*000.000	*000.000	*000.000	.090	.062	.018	-.038
7	*000.000	*000.000	*000.000	-1.357	-.894	-.564	-.600
8	*000.000	*000.000	*000.000	-2.506	-2.127	-1.311	-.834
9	*000.000	*000.000	*000.000	-3.383	-3.047	-1.799	-.790
10	-1.711	-1.960	-2.075	-3.330	-2.382	-1.326	-.492
11	-1.233	-1.636	*000.000	-1.568	-1.034	-.609	-.328
12	-1.941	-1.195	-1.064	-.878	-.698	-.546	-.345
13	-1.637	-1.017	-.849	-.695	-.816	-.537	-.458
14	-2.113	-1.006	-.801	-.610	-.776	-.593	-.374
15	-.924	-.677	.478	.437	.141	.201	-.174
16	-1.030	.166	.294	.566	.323	.279	-.033
17	-1.176	-.047	.195	.450	.268	.213	-.039
18	-1.213	-.078	.091	.333	.208	.150	-.184
19	-1.338	-.538	-.340	-.122	-.376	.162	-.181
20	-2.592	-1.142	-.902	-.903	-.907	-.681	-.592
21	-3.010	-1.192	-1.011	-.779	-.751	-.548	-.525
22	-2.595	-1.014	-.994	-.657	-.720	-.482	-.504
23	-1.417	-.877	-.624	-.443	-.571	-.541	-.526
24	-.697	-.500	-.298	-.370	-.420	-.446	-.393
25	-1.263	-3.481	-4.882	1.230	1.236	.825	-.332
26	.877	.437	.061	-.324	*000.000	.123	-.301
27	.868	1.054	.926	1.131	.997	.187	.377
28	.371	.838	.977	.747	.913	.373	.302
29	.021	.574	.775	.549	.467	.352	.363
30	.457	1.088	1.153	1.265	1.362	1.064	.686
31	.270	.871	.843	.858	.802	.514	.437
32	.168	.577	.727	.611	.579	.348	.295
33	.072	.281	.457	.422	.317	.182	.084

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-4.220	-6.565	-7.335	.304	.909	.360	-1.401
2	-4.857	-6.356	-6.479	-.547	.111	-.002	-1.147
3	-4.380	-5.201	-4.429	-.917	-.471	-.327	-1.087
4	-3.639	-3.572	-2.282	-1.255	-.865	-.724	-.724
5	-3.021	-2.741	-2.083	-1.266	-1.106	-.788	-.579
6	*000.000	*000.000	*000.000	.137	.091	.069	-.090
7	*000.000	*000.000	*000.000	-1.549	-1.105	-.521	-.524
8	*000.000	*000.000	*000.000	-2.701	-2.374	-1.305	-.876
9	*000.000	*000.000	*000.000	-3.455	-3.240	-1.756	-.681
10	-1.424	-1.681	-1.938	-3.304	-2.207	-1.020	-.290
11	-1.081	-1.676	*000.000	-1.763	-1.187	-.618	-.374
12	-1.903	-1.533	-1.508	-1.138	-.857	-.461	-.307
13	-1.359	-1.014	-.815	-.723	-.677	-.340	-.321
14	-1.279	-1.244	-.937	-.782	-.723	-.411	-.438
15	-.648	-.588	.507	.509	.161	.327	-.207
16	-.866	.113	.342	.577	.278	.336	.005
17	-.753	-.076	.181	.439	.301	.273	-.095
18	-.641	-.210	.013	.292	.219	.181	-.087
19	-.988	-.625	-.420	-.105	-.125	.168	-.161
20	-1.654	-1.173	-.938	-.843	-.757	-.471	-.539
21	-1.574	-1.249	-1.023	-1.057	-.818	-.434	-.515
22	-1.304	-.889	-.864	-1.015	-.891	-.596	-.606
23	-.804	-.762	-.638	-.493	-.491	-.512	-.558
24	-.579	-.515	-.174	-.027	-.243	-.250	-.294
25	-1.489	-3.449	-4.235	1.284	1.323	.346	-.567
26	.694	.484	.264	.043	*000.000	.213	-.222
27	.651	1.044	1.065	1.311	.209	.322	.369
28	.357	1.017	1.212	.950	1.006	.522	.402
29	.059	.595	.853	.630	.521	.426	.354
30	.506	1.103	1.105	1.211	1.299	1.053	.615
31	.288	.891	.786	.909	.765	.502	.416
32	.211	.579	.630	.615	.551	.368	.296
33	.154	.258	.391	.376	.268	.177	-.022

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.058	-4.404	-4.673	.127	.814	-.384	-1.413
2	-3.395	-3.581	-3.211	-.908	-.222	-.712	-1.193
3	-3.504	-2.924	-2.195	-1.169	-.572	-.524	-.880
4	-2.772	-1.492	-1.197	-1.472	-1.009	-.896	-.593
5	-1.835	-1.163	-1.047	-1.354	-1.153	-.825	-.442
6	*000.000	*000.000	*000.000	.118	.042	.066	-.091
7	*000.000	*000.000	*000.000	-1.666	-1.166	-.616	-.469
8	*000.000	*000.000	*000.000	-2.860	-2.394	-1.326	-.727
9	*000.000	*000.000	*000.000	-3.680	-3.305	-1.671	-.527
10	-1.130	-1.043	-1.041	-3.207	-2.300	-1.044	-.419
11	-1.049	-1.129	*000.000	-1.894	-1.308	-.596	-.320
12	-1.223	-1.300	-1.247	-1.121	-.863	-.464	-.362
13	-1.089	-1.077	-.970	-.779	-.746	-.450	-.308
14	-1.125	-.962	-.967	-.736	-.731	-.484	-.464
15	-.545	-.595	.386	.432	.141	.337	-.288
16	-.720	.075	.191	.517	.356	.296	-.024
17	-.629	-.002	.113	.452	.342	.304	.033
18	-.585	-.146	-.127	.258	.196	.105	-.118
19	-.697	-.500	-.466	-.192	-.313	.156	-.202
20	-1.071	-1.172	-1.122	-.811	-.868	-.571	-.539
21	-1.140	-1.080	-1.158	-.905	-.591	-.407	-.448
22	-.977	-.855	-.788	-.900	-.628	-.455	-.481
23	-.836	-.699	-.796	-.539	-.539	-.401	-.377
24	-.657	-.638	-.450	-.311	-.408	-.321	-.319
25	-1.411	-2.696	-3.283	1.196	1.328	.103	-.647
26	.266	.452	.349	-.003	*000.000	.156	-.379
27	.318	1.025	1.040	1.263	.401	.326	.331
28	.136	.774	1.017	.787	.855	.395	.372
29	-.034	.431	.724	.530	.416	.376	.355
30	.383	1.035	.916	1.243	1.291	.813	.540
31	.190	.805	.594	.826	.704	.432	.408
32	.154	.506	.515	.582	.446	.285	.329
33	.074	.181	.307	.381	.271	.210	.030

Table 23. - Continued.

(d) $C_{T,s} = 0.30$, $q_s = 19.35$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.950	.879	.642	.270	.814	.662	.776
2	.389	.105	-.063	.689	1.284	1.136	1.120
3	.045	-.384	-.499	.745	1.258	1.113	1.004
4	-.386	-.752	-.828	.665	1.047	.919	.790
5	-.680	-1.210	-1.375	.453	.739	.604	.458
6	*000.000	*000.000	*000.000	-.396	-.255	-.514	-.476
7	*000.000	*000.000	*000.000	.139	.488	.432	.338
8	*000.000	*000.000	*000.000	-.712	-.594	-.637	-.630
9	*000.000	*000.000	*000.000	-1.869	-1.856	-1.767	-1.581
10	-.807	-1.133	-1.471	-1.644	-1.495	-1.469	-1.266
11	-.877	-1.245	*000.000	-1.381	-1.389	-1.281	-1.067
12	-1.259	-.815	-.825	-.839	-.883	-.810	-.609
13	-.509	-.676	-.616	.569	-.540	-.566	-.326
14	-.530	-.580	-.517	-.418	-.400	-.449	-.282
15	-.237	-.273	-.085	.002	.011	-.086	-.143
16	.026	-.028	.049	-.066	.036	-.165	-.129
17	-.005	.070	.131	.035	.045	-.037	-.119
18	-.012	.018	.061	-.040	-.031	-.118	-.112
19	-.161	-.242	-.242	-.160	-.049	-.138	-.210
20	-.728	-.716	-.680	-.348	-.279	-.476	-.342
21	-1.242	-1.120	-1.039	-.574	-.397	-.631	-.479
22	-1.218	-1.018	-.886	-.438	-.225	-.488	-.401
23	-1.079	-.444	-.344	-.128	-.099	-.170	-.204
24	-.575	.029	.071	-.152	-.098	-.138	-.182
25	.869	.992	.568	-.657	-.286	-.554	-.457
26	.366	.565	.286	-.498	*000.000	-.874	-.614
27	-.154	-.025	-.318	-.314	-.241	-.374	-.485
28	-.209	-.110	-.158	-.356	-.300	-.407	-.241
29	-.048	.121	.094	-.120	-.077	-.034	.043
30	.956	1.021	1.020	.012	.021	.426	.234
31	.379	.568	.509	.163	.064	.228	.163
32	.181	.405	.422	.349	.111	.110	.153
33	.059	.304	.342	.337	.151	.137	-.054

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.540	.153	-.203	.647	1.176	1.088	1.006
2	-.135	-.699	-1.162	.712	1.261	1.138	.989
3	-.542	-1.307	-1.630	.559	1.170	1.037	.795
4	-.975	-1.673	-1.964	.361	.825	.685	.500
5	-1.137	-1.816	-1.979	.067	.387	.303	.168
6	*000.000	*000.000	*000.000	-.089	-.090	-.266	-.279
7	*000.000	*000.000	*000.000	-.047	.373	.308	.200
8	*000.000	*000.000	*000.000	-1.184	-1.066	-1.015	-1.024
9	*000.000	*000.000	*000.000	-2.264	-2.293	-2.181	-1.988
10	-1.023	-1.484	-1.867	-2.094	-1.993	-1.877	-1.708
11	-.937	-1.335	*000.000	-1.491	-1.576	-1.456	-1.294
12	-1.417	-.895	-.882	-.921	-1.036	-.911	-.722
13	-.656	-.772	-.663	-.647	-.746	-.686	-.494
14	-.770	-.693	-.610	-.531	-.592	-.555	-.458
15	-.218	-.402	.085	.139	.198	.019	-.357
16	-.251	.051	.164	.155	.089	-.045	-.173
17	-.181	.037	.154	.057	.048	.081	-.068
18	-.255	-.005	.050	.009	-.018	-.065	-.096
19	-.379	-.291	-.257	-.098	-.197	-.034	-.193
20	-.984	-.842	-.733	-.490	-.521	-.657	-.577
21	-1.483	-1.099	-.890	-.721	-.730	-.871	-.735
22	-1.643	-1.042	-.797	-.669	-.630	-.851	-.653
23	-1.597	-.527	-.355	-.103	-.114	-.414	-.481
24	-.795	.009	.054	-.063	-.070	-.053	-.253
25	1.060	1.094	.620	.055	.240	.211	.241
26	.641	.849	.595	-.139	*000.000	-.389	-.036
27	.089	.349	.243	-.174	-.228	-.370	-.332
28	-.027	.130	.125	-.080	-.122	-.108	.241
29	-.021	.221	.255	.177	.176	.261	.239
30	.749	.901	.864	.390	.428	.876	.678
31	.323	.593	.553	.405	.362	.499	.367
32	.135	.393	.465	.396	.310	.391	.331
33	-.016	.281	.348	.300	.202	.298	-.151

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.034	-.777	-1.377	.788	1.316	1.258	1.145
2	-1.046	-2.210	-2.864	.668	1.236	1.060	.845
3	-1.318	-2.434	-2.842	.311	.939	.773	.572
4	-1.451	-2.364	-2.744	.097	.539	.394	.147
5	-1.574	-2.495	-2.718	-.250	.019	-.087	-.264
6	*000.000	*000.000	*000.000	-.148	-.080	-.070	-.195
7	*000.000	*000.000	*000.000	-.557	-.343	-.342	-.450
8	*000.000	*000.000	*000.000	-1.808	-1.700	-1.654	-1.717
9	*000.000	*000.000	*000.000	-2.934	-3.061	-2.958	-2.720
10	-1.265	-1.812	-2.155	-2.377	-2.371	-2.248	-2.027
11	-1.062	-1.484	*000.000	-1.664	-1.774	-1.601	-1.398
12	-1.565	-1.010	-.934	-1.003	-1.185	-1.006	-.777
13	-.805	-.824	-.718	-.704	-.789	-.675	-.489
14	-.956	-.728	-.633	-.594	-.712	-.606	-.483
15	-.386	-.500	.097	.322	.332	.241	-.458
16	-.545	.090	.176	.347	.209	.163	-.263
17	-.538	.014	.142	.227	.166	.207	-.109
18	-.453	-.026	.060	.175	.046	.040	-.087
19	-.714	-.403	-.344	-.097	-.338	-.017	-.301
20	-1.408	-.930	-.803	-.693	-.774	-.736	-.700
21	-1.984	-1.160	-.877	-.882	-.933	-.851	-.648
22	-2.323	-1.174	-.826	-.870	-.894	-.908	-.762
23	-2.073	-.573	-.377	-.261	-.263	-.450	-.678
24	-.951	-.010	.023	.027	.026	-.052	-.278
25	.838	.595	-.076	.439	.504	.516	.535
26	.815	.974	.620	-.146	*000.000	-.179	-.111
27	.392	.687	.554	-.070	-.238	-.090	.008
28	.082	.327	.385	.378	.021	.251	.465
29	.016	.377	.427	.502	.515	.533	.444
30	.638	.911	.898	.814	.730	.908	1.019
31	.346	.670	.643	.715	.607	.616	.624
32	.132	.450	.511	.648	.531	.490	.503
33	-.012	.312	.386	.382	.389	.365	-.027

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.824	-2.293	-3.496	.719	1.409	1.273	.978
2	-1.817	-3.482	-4.261	.121	.846	.702	.350
3	-2.076	-3.779	-4.502	-.109	.471	.359	.053
4	-2.214	-3.706	-4.361	-.462	.098	-.165	-.402
5	-2.153	-3.314	-3.591	-.797	-.570	-.650	-.812
6	*000.000	*000.000	*000.000	-.194	-.032	-.030	-.050
7	*000.000	*000.000	*000.000	-1.260	-.946	-.951	-1.162
8	*000.000	*000.000	*000.000	-2.549	-2.427	-2.419	-2.608
9	*000.000	*000.000	*000.000	-3.709	-3.846	-3.690	-3.563
10	-1.572	-2.302	-2.700	-3.054	-2.992	-2.862	-2.617
11	-1.203	-1.669	*000.000	-1.897	-2.071	-1.862	-1.595
12	-1.735	-1.121	-1.029	-1.157	-1.292	-1.103	-.894
13	-1.043	-.927	-.773	-.837	-.909	-.821	-.779
14	-1.241	-.806	-.662	-.682	-.753	-.722	-.717
15	-.524	-.570	.268	.407	.337	.296	-.583
16	-.869	.105	.225	.415	.313	.233	-.296
17	-.812	.029	.194	.364	.284	.259	-.190
18	-.843	-.076	.049	.220	.095	.033	-.227
19	-.948	-.326	-.293	-.125	-.318	.063	-.339
20	-1.912	-1.043	-.894	-.925	-.958	-1.041	-.905
21	-2.610	-1.275	-.947	-1.007	-1.032	-.984	-.773
22	-3.204	-1.368	-.926	-1.051	-.836	-.919	-.737
23	-2.376	-.582	-.299	-.308	-.241	-.446	-.713
24	-1.187	-.009	.064	.078	.032	-.078	-.344
25	.536	-.222	-1.279	.817	.993	.896	.767
26	.954	.935	.604	-.435	*000.000	.044	-.124
27	.652	.906	.807	.161	.046	-.181	.088
28	.311	.574	.646	.699	.589	.876	.709
29	.044	.435	.525	.533	.574	.531	.481
30	.569	.967	.997	1.170	1.116	1.125	1.068
31	.346	.746	.736	.806	.858	.748	.642
32	.215	.542	.657	.620	.647	.571	.567
33	.002	.330	.431	.410	.396	.326	-.100

Table 23. - Concluded.

(d) $C_{T,s} = 0.30$, $q_s = 19.35$

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.808	-3.982	-5.289	.496	1.142	.963	.217
2	-3.150	-5.625	-7.061	-.439	.421	.218	-.509
3	-3.207	-5.533	-6.616	-.704	-.101	-.237	-.684
4	-2.823	-4.584	-5.484	-.928	-.555	-.654	-.980
5	-2.390	-3.747	-4.189	-1.050	-.859	-.904	-1.035
6	*000.000	*000.000	*000.000	-.127	-.062	-.139	-.090
7	*000.000	*000.000	*000.000	-1.781	-1.416	-1.450	-1.702
8	*000.000	*000.000	*000.000	-2.872	-2.731	-2.634	-2.753
9	*000.000	*000.000	*000.000	-4.197	-4.257	-3.914	-3.498
10	-1.652	-2.473	-2.991	-3.148	-3.067	-2.884	-2.479
11	-1.302	-1.812	*000.000	-1.942	-2.064	-1.740	-1.403
12	-1.678	-1.091	-1.033	-1.110	-1.072	-.944	-.902
13	-1.282	-.935	-.767	-.724	-.693	-.823	-.846
14	-1.771	-.887	-.736	-.702	-.734	-.949	-.714
15	-.915	-.681	.438	.576	.308	.273	-.828
16	-1.196	.094	.267	.508	.325	.175	-.338
17	-1.158	-.028	.170	.451	.309	.216	-.342
18	-1.162	-.064	.103	.379	.192	.064	-.320
19	-1.411	-.414	-.343	-.102	-.279	.037	-.372
20	-2.217	-.971	-.831	-.764	-.812	-.934	-.708
21	-2.986	-1.316	-.959	-1.009	-.805	-.855	-.709
22	-3.300	-1.269	-.784	-.921	-.598	-.730	-.636
23	-2.621	-.608	-.373	-.319	-.361	-.517	-.495
24	-1.617	-.143	-.055	-.049	-.244	-.322	-.464
25	-.017	-1.334	-2.579	1.025	1.252	1.160	.681
26	.882	.699	.347	-.262	*000.000	-.504	-.231
27	.743	.943	.889	.702	.053	.141	.538
28	.440	.755	.856	.904	1.099	.939	.680
29	.015	.460	.595	.594	.592	.543	.491
30	.544	1.041	1.082	1.346	1.366	1.271	1.207
31	.257	.759	.757	.872	.833	.764	.694
32	.167	.575	.619	.724	.703	.590	.581
33	.087	.371	.483	.485	.422	.346	.008

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.834	-6.037	-7.912	.406	1.033	.930	-.174
2	-3.832	-6.840	-8.386	-.744	.063	-.038	-.674
3	-3.544	-6.002	-7.082	-.863	-.276	-.306	-.819
4	-3.521	-5.526	-6.350	-1.168	-.662	-.653	-.932
5	-2.932	-4.612	-5.049	-1.346	-1.133	-1.034	-1.131
6	*000.000	*000.000	*000.000	-.016	.134	.020	.044
7	*000.000	*000.000	*000.000	-1.717	-1.232	-1.055	-1.186
8	*000.000	*000.000	*000.000	-2.846	-2.570	-2.229	-2.008
9	*000.000	*000.000	*000.000	-3.787	-3.479	-2.923	-2.866
10	-2.001	-2.943	-3.547	-3.508	-3.124	-2.261	-1.205
11	-1.266	-1.683	*000.000	-1.282	-.937	-.808	-.783
12	-1.705	-1.158	-1.076	-.641	-.609	-.713	-.812
13	-1.507	-.937	-.817	-.657	-.664	-.693	-.704
14	-2.305	-.847	-.734	-.548	-.556	-.604	-.610
15	-1.053	-.678	.424	.482	.278	.259	-.399
16	-1.429	.148	.307	.571	.360	.305	-.432
17	-1.454	-.018	.203	.524	.361	.402	-.173
18	-1.447	-.061	.107	.397	.303	.046	-.255
19	-1.713	-.415	-.339	-.103	-.269	.122	-.483
20	-2.580	-.944	-.897	-.774	-.732	-.756	-.712
21	-3.251	-1.205	-1.002	-.875	-.757	-.704	-.560
22	-3.451	-1.124	-.973	-.655	-.679	-.611	-.631
23	-2.366	-.554	-.498	-.504	-.532	-.577	-.535
24	-1.442	-.183	-.057	-.386	-.337	-.361	-.399
25	-.566	-2.244	-3.364	1.099	1.309	1.233	.592
26	.849	.548	.279	.018	*000.000	-.159	-.123
27	.851	.971	.934	1.072	.410	.309	.734
28	.406	.760	.891	.885	1.013	.876	.610
29	.036	.499	.632	.602	.590	.550	.548
30	.425	1.039	1.084	1.387	1.437	1.335	1.186
31	.244	.830	.810	.959	.900	.826	.686
32	.170	.554	.644	.658	.661	.537	.627
33	.082	.367	.492	.434	.362	.285	-.044

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-4.340	-8.302	-10.429	-.021	.779	.747	-.664
2	-5.156	-8.850	-10.619	-1.465	-.545	-.499	-1.142
3	-4.954	-8.195	-9.621	-1.649	-.983	-.832	-1.147
4	-4.292	-6.623	-7.700	-1.871	-1.274	-1.172	-1.194
5	-3.385	-5.336	-5.812	-1.859	-1.566	-1.367	-1.028
6	*000.000	*000.000	*000.000	.044	.053	.128	-.047
7	*000.000	*000.000	*000.000	-1.897	-1.408	-1.102	-1.104
8	*000.000	*000.000	*000.000	-3.572	-3.145	-2.390	-1.642
9	*000.000	*000.000	*000.000	-4.758	-4.366	-3.139	-1.511
10	-2.038	-2.966	-3.476	-3.443	-2.935	-1.843	-.721
11	-1.574	-2.016	*000.000	-1.979	-1.613	-1.027	-.570
12	-1.909	-1.217	-1.188	-.971	-.838	-.714	-.611
13	-2.282	-1.037	-.928	-.752	-1.071	-.683	-.813
14	-3.221	-.917	-.817	-.679	-1.017	-.644	-.803
15	-1.218	-.658	.514	.476	.291	.271	-.476
16	-1.599	.166	.323	.616	.362	.354	-.271
17	-1.534	.045	.281	.504	.368	.430	-.145
18	-1.601	-.049	.127	.388	.199	.153	-.228
19	-1.882	-.387	-.305	-.050	-.317	.200	-.373
20	-3.658	-1.170	-1.096	-1.060	-1.108	-.852	-.941
21	-3.717	-1.208	-1.027	-.844	-.955	-.708	-.767
22	-3.736	-1.078	-.923	-.789	-.792	-.679	-.732
23	-2.523	-.702	-.588	-.538	-.684	-.695	-.725
24	-1.672	-.374	-.180	-.314	-.607	-.656	-.673
25	-1.686	-4.404	-5.838	1.333	1.461	1.365	.464
26	.748	.180	-.136	-.006	*000.000	-.176	-.187
27	.842	.916	.928	1.383	.854	.749	.675
28	.520	.915	1.071	.909	1.032	.850	.663
29	-.012	.602	.841	.714	.665	.597	.545
30	.258	1.024	1.099	1.340	1.367	1.250	1.143
31	.235	.818	.772	.881	.853	.735	.542
32	.128	.584	.645	.665	.659	.511	.511
33	.078	.338	.482	.480	.414	.298	-.084

Table 24.- Pressure coefficients for wing with propeller rotation up at tip, inboard slat, $\delta_f = 40°$.

(a) $C_{T,S} = 0.90$, $q_s = 20.19$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.851	.736	.516	-.986	.139	.298	.409
2	.222	.092	-.112	-.244	.821	.883	.501
3	-.025	-.187	-.260	.019	1.018	1.005	.482
4	-.296	-.592	-.680	.533	1.113	.970	.321
5	-.473	-.923	-.964	.864	1.083	.853	.242
6	*000.000	*000.000	*000.000	-.308	-.154	-.042	-.071
7	*000.000	*000.000	*000.000	.739	.826	.661	.359
8	*000.000	*000.000	*000.000	.423	.300	.005	-.108
9	*000.000	*000.000	*000.000	-.160	-.495	-.704	-.576
10	-.327	-.777	-1.057	-.482	-.528	-.669	-.444
11	-.306	-.807	*000.000	-.625	-.664	-.647	-.402
12	-.936	-.545	-.652	-.515	-.523	-.373	-.245
13	-.269	-.518	-.623	-.464	-.390	-.296	-.184
14	-.338	-.558	-.673	-.554	-.394	-.281	-.118
15	.089	-2.287	.276	-.068	.014	-.042	-.010
16	.208	.111	.116	-.123	-.074	-.087	-.002
17	-.322	-.625	-.509	-.330	-.148	-.137	-.057
18	-.785	-1.144	-1.229	-.725	-.370	-.279	-.174
19	-.935	-1.464	-1.644	-1.061	-.485	-.202	-.292
20	-1.059	-1.569	-1.682	-1.262	-.393	-.280	-.310
21	-1.115	-1.397	-1.491	-1.171	-.137	-.163	-.129
22	-1.158	-1.075	-1.012	-.737	-.108	-.121	-.060
23	-.928	-.308	-.017	-.229	-.105	-.118	-.072
24	-.385	.038	.046	-.136	-.106	-.061	-.145
25	1.025	1.095	.873	-1.079	-.500	-.347	-.128
26	.716	.976	.867	-.867	*000.000	-.545	-.247
27	.074	.374	.501	-.349	-.227	-.082	.012
28	.062	.229	.271	-.368	-.115	-.083	-.023
29	.162	.386	.357	.018	-.102	-.027	.063
30	.927	1.136	.918	-.062	-.065	-.058	.084
31	1.004	1.108	1.006	-.210	-.007	.010	.035
32	.621	.809	.759	.190	-.045	-.093	.030
33	.359	.611	.622	.356	.120	-.102	-.017

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.596	.179	-.300	-.499	.511	.564	.184
2	-.245	-.721	-1.101	.165	1.062	1.114	.125
3	-.354	-1.028	-1.377	.338	1.151	1.161	.173
4	-.647	-1.261	-1.568	.619	1.160	1.038	.071
5	-.715	-1.297	-1.492	.729	.949	.782	.037
6	*000.000	*000.000	*000.000	-.269	-.159	-.056	-.115
7	*000.000	*000.000	*000.000	.676	.703	.600	.158
8	*000.000	*000.000	*000.000	.282	.051	-.147	-.302
9	*000.000	*000.000	*000.000	-.438	-.819	-.889	-.781
10	-.505	-1.032	-1.345	-.635	-.790	-.798	-.620
11	-.423	-.941	*000.000	-.707	-.800	-.644	-.434
12	-1.107	-.647	-.730	-.562	-.607	-.453	-.306
13	-.457	-.630	-.707	-.485	-.454	-.300	-.241
14	-.541	-.610	-.632	-.497	-.422	-.236	-.141
15	.009	-2.371	.285	.217	-.009	.112	.068
16	.004	.090	.130	.005	-.008	.026	-.001
17	-.544	-.668	-.531	-.268	-.241	-.081	-.081
18	-1.017	-1.180	-1.158	-.632	-.399	-.285	-.237
19	-1.368	-1.574	-1.613	-1.130	-.760	-.333	-.353
20	-1.566	-1.687	-1.688	-1.334	-.845	-.459	-.445
21	-1.647	-1.539	-1.420	-1.141	-.448	-.154	-.188
22	-1.598	-1.151	-.970	-.690	-.107	-.085	-.092
23	-1.166	-.349	-.165	-.190	-.117	-.114	-.076
24	-.438	-.104	-.041	-.136	-.100	-.037	-.098
25	1.157	1.080	.637	-.902	-.299	-.087	-.087
26	.833	.999	.846	-.705	*000.000	-.409	.110
27	.237	.581	.692	-.325	-.157	.008	-.086
28	.074	.379	.447	-.267	-.124	-.053	.015
29	.097	.410	.450	.023	-.055	.014	.068
30	.760	1.078	.918	.094	.040	-.005	.016
31	.799	.993	.915	.058	-.018	.110	.104
32	.526	.745	.813	.290	.118	.067	.142
33	.333	.561	.566	.535	.107	.114	.062

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.619	.085	-.412	-.336	.452	.642	.189
2	-.155	-.743	-1.091	.198	1.074	1.122	.238
3	-.396	-.974	-1.195	.404	1.140	1.175	.238
4	-.649	-1.216	-1.501	.709	1.150	1.102	.237
5	-.722	-1.293	-1.351	.845	.919	.802	.135
6	*000.000	*000.000	*000.000	-.230	-.162	-.087	.091
7	*000.000	*000.000	*000.000	.770	.723	.684	.277
8	*000.000	*000.000	*000.000	.331	.036	-.083	-.162
9	*000.000	*000.000	*000.000	-.426	-.809	-.868	-.636
10	-.484	-1.003	-1.254	-.592	-.776	-.748	-.480
11	-.431	-.970	*000.000	-.705	-.838	-.662	-.364
12	-1.013	-.618	-.729	-.488	-.589	-.412	-.247
13	-.404	-.582	-.638	-.458	-.422	-.286	-.187
14	-.508	-.600	-.618	-.442	-.419	-.250	-.087
15	.048	-2.279	.266	.269	.005	.050	.041
16	.011	.073	.124	.081	-.045	-.001	.019
17	-.537	-.688	-.528	-.227	-.175	-.029	-.059
18	-1.005	-1.182	-1.122	-.602	-.405	-.237	-.120
19	-1.311	-1.548	-1.576	-1.088	-.669	-.246	-.298
20	-1.510	-1.695	-1.646	-1.250	-.695	-.400	-.375
21	-1.612	-1.512	-1.359	-1.034	-.338	-.137	-.212
22	-1.421	-1.093	-.995	-.655	-.137	-.110	-.107
23	-1.123	-.318	-.077	-.147	-.131	-.036	-.023
24	-.416	-.049	.013	-.139	-.096	-.026	-.006
25	1.099	1.019	.539	-.744	-.328	-.131	-.071
26	.831	1.017	.852	-.660	*000.000	-.373	.137
27	.259	.616	.720	-.301	-.153	-.027	.021
28	.109	.343	.442	-.193	-.108	-.057	-.002
29	.080	.418	.419	.073	-.075	.015	.078
30	.735	1.058	.929	.107	-.068	.078	.154
31	.821	1.008	.945	.104	.030	.106	.063
32	.555	.788	.823	.644	.124	.024	.095
33	.327	.564	.626	.810	.252	.074	.145

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.393	-.214	-.872	-.263	.615	.811	.330
2	-.451	-1.146	-1.673	.288	1.102	1.226	.340
3	-.633	-1.380	-1.738	.474	1.162	1.157	.145
4	-.940	-1.541	-1.881	.742	1.121	1.052	.062
5	-.898	-1.614	-1.789	.842	.879	.681	.005
6	*000.000	*000.000	*000.000	-.261	-.114	-.050	-.020
7	*000.000	*000.000	*000.000	.692	.721	.635	.103
8	*000.000	*000.000	*000.000	.158	-.101	-.151	-.305
9	*000.000	*000.000	*000.000	-.530	-.929	-1.002	-.731
10	-.628	-1.184	-1.456	-.723	-.898	-.878	-.745
11	-.526	-1.022	*000.000	-.732	-.903	-.717	-.446
12	-1.117	-.682	-.725	-.592	-.615	-.408	-.280
13	-.586	-.637	-.664	-.503	-.518	-.335	-.180
14	-.727	-.652	-.680	-.476	-.500	-.311	-.141
15	-.085	-2.346	.222	.208	.033	.146	.051
16	-.204	.073	.144	.108	-.065	.067	.025
17	-.806	-.795	-.656	-.341	-.310	-.060	-.132
18	-1.357	-1.260	-1.186	-.737	-.586	-.373	-.258
19	-1.790	-1.784	-1.744	-1.293	-.957	-.399	-.451
20	-2.037	-1.823	-1.679	-1.323	-.861	-.497	-.483
21	-2.151	-1.687	-1.509	-1.124	-.479	-.238	-.388
22	-1.970	-1.237	-1.060	-.831	-.228	-.129	-.141
23	-1.338	-.284	-.221	-.224	-.113	-.112	-.099
24	-.617	-.149	-.133	-.145	-.103	-.043	-.096
25	1.135	.928	.305	-.664	-.136	-.083	-.070
26	.931	1.079	.863	-.677	*000.000	-.362	.096
27	.356	.727	.825	-.256	-.137	-.005	.004
28	.093	.442	.548	-.215	-.094	-.008	-.020
29	.068	.472	.517	.116	-.021	.071	.106
30	.666	1.088	.923	.199	.024	.118	.128
31	.792	1.037	1.072	.245	.098	.181	.026
32	.500	.754	.788	.519	.244	.212	.148
33	.309	.579	.646	.640	.326	.235	.193

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.185	-.600	-1.750	-.062	.773	.852	.217
2	-.669	-1.633	-2.421	.428	1.091	1.137	.180
3	-.890	-1.780	-2.396	.630	1.097	1.087	.132
4	-1.148	-1.923	-2.376	.731	1.010	.920	-.058
5	-1.011	-1.762	-2.012	.843	.742	.540	-.021
6	*000.000	*000.000	*000.000	-.183	-.114	-.065	-.058
7	*000.000	*000.000	*000.000	.629	.613	.533	.025
8	*000.000	*000.000	*000.000	.105	-.204	-.287	-.338
9	*000.000	*000.000	*000.000	-.637	-1.111	-1.111	-.833
10	-.674	-1.260	-1.568	-.874	-1.008	-.961	-.656
11	-.608	-1.044	*000.000	-.799	-.926	-.767	-.454
12	-1.125	-.722	-.759	-.607	-.694	-.511	-.299
13	-.696	-.668	-.633	-.494	-.540	-.406	-.141
14	-.932	-.694	-.699	-.490	-.557	-.387	-.107
15	-.264	-2.120	.270	.264	.147	.172	.114
16	-.349	-.003	.133	.121	-.047	-.043	.039
17	-.974	-.791	-.625	-.307	-.399	-.220	-.101
18	-1.542	-1.327	-1.210	-.753	-.741	-.577	-.337
19	-2.189	-1.793	-1.656	-1.273	-1.175	-.449	-.531
20	-2.423	-1.825	-1.655	-1.322	-.945	-.803	-.597
21	-2.434	-1.719	-1.397	-.994	-.664	-.482	-.430
22	-2.193	-1.222	-1.035	-.686	-.191	-.277	-.335
23	-1.478	-.373	-.195	-.212	-.149	-.159	-.215
24	-.713	-.154	.071	-.197	-.161	-.075	-.095
25	1.011	.660	-.250	-.594	-.021	.035	-.002
26	.964	1.052	.813	-.592	*000.000	-.286	.098
27	.404	.796	.810	-.165	-.075	-.064	-.007
28	.121	.471	.561	-.073	-.095	-.105	.015
29	.040	.457	.541	.248	-.011	.093	.079
30	.568	.972	.907	.156	.239	.160	.139
31	.655	.945	.916	.545	.263	.199	.303
32	.440	.687	.796	.668	.459	.270	.182
33	.255	.481	.572	.766	.530	.234	.196

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.027	-1.048	-2.412	.120	.853	.860	-.060
2	-.994	-2.114	-3.145	.689	1.208	1.237	-.049
3	-1.119	-2.140	-3.037	.682	1.170	1.147	-.017
4	-1.306	-2.258	-2.868	.864	1.028	.885	-.253
5	-1.274	-2.177	-2.425	.850	.701	.504	-.308
6	*000.000	*000.000	*000.000	-.242	-.154	-.160	-.070
7	*000.000	*000.000	*000.000	.647	.550	.511	.021
8	*000.000	*000.000	*000.000	.118	-.302	-.378	-.489
9	*000.000	*000.000	*000.000	-.731	-1.333	-1.273	-1.075
10	-.730	-1.387	-1.680	-.919	-1.083	-1.008	-.747
11	-.636	-1.140	*000.000	-.797	-.987	-.776	-.526
12	-1.175	-.817	-.826	-.644	-.710	-.522	-.378
13	-.586	-.778	-.703	-.526	-.581	-.445	-.212
14	-1.234	-.841	-.726	-.546	-.612	-.455	-.329
15	-.411	-2.296	.322	.346	.186	.177	.077
16	-.477	-.027	.079	.105	-.020	-.029	-.134
17	-1.198	-.869	-.629	-.341	-.537	-.267	-.122
18	-1.966	-1.493	-1.349	-.893	-.985	-.739	-.472
19	-2.571	-1.926	-1.753	-1.301	-1.258	-.641	-.630
20	-2.884	-2.083	-1.695	-1.452	-1.319	-1.055	-.871
21	-3.027	-1.993	-1.470	-1.373	-.889	-.837	-.791
22	-2.586	-1.509	-1.029	-.806	-.399	-.522	-.600
23	-1.516	-.517	-.257	-.173	-.120	-.189	-.294
24	-.815	-.126	.065	-.087	-.167	-.171	-.152
25	.992	.465	-.696	-.362	-.026	-.052	-.253
26	1.002	.989	.707	-.538	*000.000	-.276	.004
27	.505	.848	.895	-.168	-.122	-.094	-.114
28	.182	.511	.645	-.129	-.091	-.092	-.133
29	.021	.461	.505	.349	0.	.030	.072
30	.540	.956	.941	.444	.267	.271	.016
31	.665	.983	.956	.743	.335	.328	.081
32	.475	.742	.818	.950	.686	.287	.239
33	.248	.525	.679	.729	.535	.187	.262

Table 24. - Continued.

(a) $C_{T,S} = 0.90$, $q_S = 20.19$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.353	-1.358	-2.889	.391	.910	.972	-.170
2	-1.456	-2.415	-3.529	.684	1.193	1.201	-.135
3	-1.537	-2.674	-3.479	.788	1.149	1.130	-.259
4	-1.624	-2.472	-3.071	.756	.919	.818	-.309
5	-1.562	-2.340	-2.583	.711	.607	.432	-.402
6	*000.000	*000.000	*000.000	-.267	-.208	-.183	-.225
7	*000.000	*000.000	*000.000	.572	.547	.586	-.034
8	*000.000	*000.000	*000.000	-.038	-.451	-.424	-.514
9	*000.000	*000.000	*000.000	-.833	-1.414	-1.389	-1.019
10	-.959	-1.539	-1.847	-1.006	-1.218	-1.115	-.877
11	-.862	-1.263	*000.000	-.925	-1.048	-.815	-.573
12	-1.241	-.884	-.803	-.701	-.781	-.506	-.327
13	-1.064	-.803	-.685	-.588	-.636	-.377	-.267
14	-1.395	-.862	-.730	-.585	-.693	-.477	-.285
15	-.560	-2.108	.337	.350	.269	.299	.042
16	-.699	-.065	.080	.137	.009	.104	-.029
17	-1.436	-.901	-.687	-.342	-.567	-.285	-.205
18	-2.269	-1.568	-1.281	-1.029	-1.208	-.894	-.524
19	-2.803	-1.974	-1.481	-1.477	-1.536	-.816	-.809
20	-3.249	-2.132	-1.450	-1.587	-1.576	-1.335	-1.027
21	-3.279	-2.082	-1.238	-1.386	-1.215	-1.010	-.810
22	-2.885	-1.688	-.927	-1.030	-.517	-.721	-.688
23	-1.457	-.555	-.278	-.156	-.129	-.149	-.499
24	-.954	-.187	.021	-.116	-.159	-.087	-.213
25	.863	.266	-1.031	-.261	.064	.005	-.400
26	1.018	.985	.704	-.506	*000.000	-.206	-.065
27	.531	.873	.906	-.250	-.191	-.100	-.222
28	.171	.536	.653	.101	-.168	-.089	-.050
29	-.033	.469	.592	.551	.300	.199	.057
30	.473	.990	.963	.800	.514	.485	.074
31	.544	.919	.938	.879	.635	.527	.093
32	.363	.764	.868	.894	.915	.431	.184
33	.160	.488	.677	.697	.622	.473	.153

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.737	-1.749	-3.384	.725	1.005	1.120	-.291
2	-1.715	-2.757	-4.001	.846	1.160	1.306	-.302
3	-1.965	-3.129	-4.142	.870	1.124	1.274	-.484
4	-1.888	-2.872	-3.552	.765	.856	.778	-.477
5	-1.644	-2.444	-2.689	.583	.489	.437	-.456
6	*000.000	*000.000	*000.000	-.339	-.219	-.092	-.159
7	*000.000	*000.000	*000.000	.456	.503	.479	-.024
8	*000.000	*000.000	*000.000	-.166	-.586	-.354	-.317
9	*000.000	*000.000	*000.000	-1.144	-1.622	-1.196	-.842
10	-.947	-1.566	-1.804	-1.187	-1.247	-.922	-.635
11	-.902	-1.290	*000.000	-.991	-1.114	-.676	-.438
12	-1.115	-.882	-.797	-.727	-.781	-.373	-.268
13	-1.259	-.870	-.734	-.615	-.680	-.435	-.209
14	-1.550	-.892	-.707	-.598	-.677	-.308	-.126
15	-.676	-2.157	.363	.370	.327	.414	.148
16	-.807	-.146	.072	.141	-.031	.200	.014
17	-1.537	-.950	-.623	-.411	-.628	-.187	-.142
18	-2.274	-1.550	-1.183	-1.023	-1.207	-.655	-.447
19	-3.178	-2.117	-1.490	-1.568	-1.587	-.930	-.728
20	-3.608	-2.353	-1.432	-1.774	-1.755	-1.239	-.836
21	-3.401	-2.174	-1.199	-1.424	-1.480	-1.062	-.532
22	-2.957	-1.786	-.921	-1.122	-.846	-.744	-.640
23	-1.391	-.628	-.319	-.239	-.279	-.292	-.457
24	-.993	-.200	-.013	-.153	-.236	-.029	-.163
25	.636	.022	-1.385	.099	.158	.053	-.168
26	1.113	.976	.711	-.565	*000.000	-.293	-.011
27	.567	.875	.913	-.228	-.165	-.117	-.123
28	.231	.569	.700	.196	-.229	-.044	.011
29	-.072	.454	.601	.544	.289	.250	.227
30	.383	.906	.904	.845	.685	.671	.148
31	.498	.895	.963	.919	.829	.541	.063
32	.340	.690	.807	.813	.846	.670	.349
33	.168	.418	.640	.613	.652	.494	.190

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.255	-2.202	-3.603	.734	1.061	1.001	-.414
2	-2.133	-3.152	-4.478	.933	1.190	1.162	-.434
3	-2.253	-3.283	-4.285	.846	1.116	.996	-.631
4	-2.220	-3.015	-3.764	.754	.811	.845	-.523
5	-2.018	-2.735	-2.965	.559	.446	.460	-.538
6	*000.000	*000.000	*000.000	-.291	-.170	-.135	-.222
7	*000.000	*000.000	*000.000	.390	.468	.486	.002
8	*000.000	*000.000	*000.000	-.340	-.574	-.323	-.325
9	*000.000	*000.000	*000.000	-1.412	-1.680	-1.337	-.716
10	-1.155	-1.685	-1.828	-1.353	-1.288	-.936	-.517
11	-1.001	-1.349	*000.000	-1.102	-1.119	-.676	-.278
12	-1.024	-.895	-.701	-.729	-.724	-.352	-.168
13	-1.298	-.874	-.672	-.618	-.602	-.290	-.211
14	-1.718	-.952	-.729	-.667	-.717	-.401	-.282
15	-.819	-2.196	.398	.459	.385	.405	-.015
16	-.871	-.140	.115	.129	.040	.152	.009
17	-1.779	-1.081	-.688	-.490	-.701	-.338	-.289
18	-2.412	-1.638	-1.195	-1.096	-1.217	-.726	-.355
19	-3.335	-2.266	-1.505	-1.704	-1.741	-.741	-.569
20	-3.408	-2.321	-1.331	-1.749	-1.636	-1.028	-.637
21	-3.014	-1.997	-1.072	-1.444	-1.402	-1.067	-.669
22	-2.922	-1.633	-.910	-1.122	-1.018	-.901	-.642
23	-1.454	-.620	-.449	-.178	-.289	-.457	-.583
24	-1.123	-.108	-.075	-.126	-.110	-.151	-.216
25	.391	-.208	-1.376	.147	.194	.053	-.340
26	.951	.913	.658	-.495	*000.000	-.279	-.104
27	.622	.901	.901	-.213	-.131	-.080	-.228
28	.218	.563	.719	.237	-.195	-.118	-.091
29	-.115	.439	.616	.555	.442	.207	.085
30	.370	.940	.975	.968	.765	.577	.010
31	.442	.894	1.020	.951	.844	.509	.075
32	.264	.669	.815	.850	.908	.648	.158
33	.117	.408	.622	.585	.615	.394	.074

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.693	-2.584	-4.270	.909	1.141	.957	-.493
2	-2.626	-3.541	-4.918	.983	1.234	1.033	-.516
3	-2.920	-3.530	-4.514	.867	1.104	.929	-.446
4	-2.657	-3.428	-3.995	.780	.835	.629	-.556
5	-2.314	-3.000	-3.209	.590	.456	.215	-.414
6	*000.000	*000.000	*000.000	-.286	-.183	-.339	-.129
7	*000.000	*000.000	*000.000	.374	.417	.489	.002
8	*000.000	*000.000	*000.000	-.536	-.623	-.452	-.272
9	*000.000	*000.000	*000.000	-1.335	-1.628	-1.182	-.531
10	-1.267	-1.739	-1.848	-1.361	-1.231	-.805	-.209
11	-1.090	-1.384	*000.000	-1.056	-1.036	-.617	-.133
12	-1.071	-.963	-.754	-.762	-.675	-.264	-.047
13	-1.422	-.972	-.738	-.644	-.559	-.366	-.124
14	-1.824	-1.055	-.804	-.691	-.690	-.392	-.168
15	-.858	-2.049	.335	.426	.323	.318	.053
16	-.952	-.166	.061	.124	-.019	.062	-.027
17	-1.588	-1.054	-.705	-.437	-.531	-.111	-.141
18	-2.623	-1.722	-1.248	-1.152	-1.177	-.580	-.423
19	-3.476	-2.279	-1.535	-1.783	-1.495	-.663	-.513
20	-3.389	-2.307	-1.352	-1.806	-1.584	-.713	-.660
21	-3.381	-2.220	-1.289	-1.566	-1.440	-.718	-.572
22	-2.858	-1.701	-.991	-1.124	-.940	-.707	-.541
23	-1.412	-.566	-.527	-.144	-.253	-.338	-.399
24	-1.119	-.149	-.150	-.100	-.014	-.086	-.071
25	.026	-.388	-1.616	.230	.245	-.059	-.185
26	.837	.875	.631	-.467	*000.000	-.327	-.068
27	.585	.890	.900	-.103	-.147	-.200	-.134
28	.186	.586	.693	.174	-.188	-.258	.063
29	-.128	.435	.592	.545	.349	.163	.139
30	.287	.894	.955	.862	.739	.394	.052
31	.400	.953	1.028	1.015	.910	.595	.083
32	.201	.669	.797	.877	.881	.470	.150
33	.091	.414	.574	.645	.657	.260	.095

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.416	-2.824	-4.291	.940	1.111	.768	-.297
2	-3.274	-3.715	-4.833	.985	1.147	1.031	-.281
3	-3.311	-3.786	-4.600	.975	1.048	1.022	-.340
4	-3.044	-3.500	-4.046	.781	.767	.663	-.396
5	-2.395	-2.909	-3.056	.525	.386	.341	-.135
6	*000.000	*000.000	*000.000	-.259	-.209	-.147	-.070
7	*000.000	*000.000	*000.000	.390	.485	.621	.062
8	*000.000	*000.000	*000.000	-.546	-.632	-.137	-.126
9	*000.000	*000.000	*000.000	-1.457	-1.719	-1.206	-.445
10	-1.537	-1.932	-1.925	-1.603	-1.355	-.625	-.185
11	-1.204	-1.423	*000.000	-1.114	-1.036	-.333	-.104
12	-1.076	-.991	-.802	-.787	-.652	-.287	-.126
13	-1.694	-1.040	-.785	-.706	-.586	-.158	-.145
14	-1.843	-1.037	-.819	-.653	-.597	-.303	-.266
15	-.879	-1.897	.277	.401	.260	.260	.084
16	-1.141	-.211	.034	.168	.086	.171	-.007
17	-1.933	-1.150	-.785	-.483	-.600	-.203	-.168
18	-2.738	-1.792	-1.352	-1.157	-.853	-.532	-.367
19	-3.352	-2.124	-1.582	-1.685	-1.315	-.523	-.433
20	-3.423	-2.220	-1.463	-1.914	-1.282	-.650	-.514
21	-3.337	-1.946	-1.293	-1.415	-.990	-.536	-.386
22	-2.379	-1.460	-1.087	-1.121	-.865	-.467	-.369
23	-1.364	-.611	-.577	-.249	-.381	-.235	-.249
24	-.929	-.228	-.235	-.061	-.113	-.148	-.109
25	-.243	-.530	-1.704	.253	.193	-.293	-.058
26	.883	.841	.585	-.309	*000.000	-.234	-.056
27	.547	.889	.929	-.036	-.168	-.150	-.085
28	.150	.579	.678	.058	-.195	-.060	.010
29	-.229	.403	.528	.517	.248	.174	.211
30	.263	.863	.895	.847	.548	.543	.097
31	.291	.874	.889	1.016	.809	.515	.085
32	.177	.642	.686	.842	.832	.378	.185
33	.018	.381	.567	.638	.503	.292	.090

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.739	-3.045	-4.128	.929	1.036	.527	-.392
2	-3.669	-4.097	-5.073	1.037	1.171	.900	-.291
3	-3.485	-3.879	-4.436	.962	1.059	.758	-.135
4	-3.174	-3.564	-3.901	.744	.766	.732	-.109
5	-2.699	-3.146	-3.060	.487	.416	.514	-.142
6	*000.000	*000.000	*000.000	-.263	-.174	-.143	-.094
7	*000.000	*000.000	*000.000	.303	.440	.657	-.023
8	*000.000	*000.000	*000.000	-.666	-.566	.058	-.193
9	*000.000	*000.000	*000.000	-1.604	-1.492	-.433	-.331
10	-1.521	-1.867	-1.735	-1.556	-1.119	-.285	-.237
11	-1.160	-1.459	*000.000	-1.146	-.858	-.177	-.218
12	-1.099	-1.077	-.757	-.730	-.535	-.133	-.157
13	-1.563	-.968	-.719	-.546	-.378	-.132	-.204
14	-1.857	-1.025	-.766	-.587	-.435	-.144	-.155
15	-.937	-1.841	.273	.347	.246	.315	.013
16	-.916	-.192	.077	.145	.103	.166	-.008
17	-1.790	-1.130	-.691	-.478	-.477	-.021	-.192
18	-2.398	-1.664	-1.303	-1.051	-.846	-.423	-.472
19	-3.018	-1.972	-1.533	-1.345	-.936	-.337	-.297
20	-3.117	-2.025	-1.535	-1.383	-.686	-.412	-.516
21	-2.585	-1.761	-1.352	-1.333	-1.002	-.510	-.503
22	-2.318	-1.331	-1.092	-1.111	-.686	-.408	-.500
23	-1.345	-.640	-.509	-.251	-.371	-.278	-.379
24	-.779	-.246	-.194	-.013	-.147	-.124	-.194
25	-.737	-.755	-1.784	.250	.228	-.126	-.195
26	.642	.797	.588	-.297	*000.000	-.293	-.092
27	.610	.907	.945	-.032	-.172	-.091	-.117
28	.162	.518	.688	.009	-.186	-.076	-.110
29	-.223	.399	.572	.509	.142	.120	.046
30	.280	.836	.939	.741	.589	.404	.073
31	.294	.875	.857	.834	.776	.521	.053
32	.187	.650	.681	.858	.683	.524	.052
33	.051	.365	.489	.604	.509	.239	.129

Table 24. - Continued.

(a) $C_{T,s} = 0.90$, $q_s = 20.19$

$\alpha = 65°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.964	-3.148	-4.288	.968	1.073	.090	-.153
2	-4.027	-4.197	-4.894	1.008	1.168	.521	-.100
3	-4.131	-4.419	-4.771	.946	1.105	.474	-.240
4	-3.463	-3.848	-3.992	.649	.796	.651	-.190
5	-2.942	-3.381	-3.206	.408	.423	.256	-.089
6	*000.000	*000.000	*000.000	-.306	-.161	-.135	-.213
7	*000.000	*000.000	*000.000	.322	.469	.438	-.070
8	*000.000	*000.000	*000.000	-.705	-.504	.015	-.104
9	*000.000	*000.000	*000.000	-1.653	-1.348	-.388	-.247
10	-1.702	-2.078	-1.753	-1.667	-.969	-.250	-.249
11	-1.238	-1.631	*000.000	-1.170	-.663	-.094	-.224
12	-1.046	-1.041	-.760	-.674	-.426	-.132	-.140
13	-1.673	-1.035	-.741	-.524	-.254	-.148	-.253
14	-1.984	-1.190	-.906	-.584	-.417	-.140	-.351
15	-.838	-1.913	.333	.415	.362	.322	-.078
16	-.980	-.302	0.	.089	.120	.074	-.166
17	-1.594	-1.216	-.715	-.386	-.352	-.117	-.275
18	-2.240	-1.680	-1.384	-.952	-.625	-.362	-.412
19	-2.766	-2.027	-1.792	-1.462	-1.172	-.426	-.479
20	-2.869	-1.859	-1.580	-1.153	-.552	-.453	-.573
21	-2.276	-1.699	-1.446	-1.186	-.677	-.425	-.581
22	-2.199	-1.400	-1.218	-.853	-.551	-.400	-.592
23	-1.130	-.647	-.498	-.323	-.397	-.362	-.487
24	-.615	-.267	-.172	-.093	-.146	-.073	-.243
25	-1.300	-1.017	-2.037	.268	.188	-.507	-.210
26	.461	.722	.552	-.313	*000.000	-.298	-.197
27	.470	.855	.936	-.036	-.130	-.069	-.101
28	.090	.493	.667	-.059	-.143	-.120	-.200
29	-.221	.358	.577	.435	.142	.058	-.076
30	.133	.821	.933	.659	.474	.349	-.096
31	.309	.887	.896	.812	.772	.461	-.015
32	.175	.660	.646	.869	.870	.457	.034
33	.046	.334	.488	.669	.637	.282	.105

$\alpha = 70°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.604	-3.558	-4.326	.892	1.056	-.280	-.102
2	-4.374	-4.521	-4.940	1.036	1.147	.183	-.164
3	-4.292	-4.696	-4.879	.994	1.048	.185	-.098
4	-3.747	-4.336	-4.323	.716	.879	.369	-.148
5	-3.016	-3.621	-3.225	.345	.384	.170	-.226
6	*000.000	*000.000	*000.000	-.310	-.226	-.283	.110
7	*000.000	*000.000	*000.000	.291	.532	.309	.010
8	*000.000	*000.000	*000.000	-.654	-.304	.054	-.091
9	*000.000	*000.000	*000.000	-1.746	-1.172	-.287	-.161
10	-1.650	-2.107	-1.721	-1.652	-.852	-.317	-.153
11	-1.235	-1.635	*000.000	-1.093	-.597	-.182	-.051
12	-1.142	-1.130	-.794	-.675	-.365	-.166	-.071
13	-1.540	-1.003	-.750	-.550	-.287	-.271	-.185
14	-1.706	-1.070	-.823	-.557	-.195	-.113	-.062
15	-.995	-1.835	.304	.316	.243	.174	-.007
16	-.770	-.247	.060	.071	.103	.073	-.065
17	-1.431	-1.201	-.738	-.496	-.363	-.134	-.220
18	-1.870	-1.588	-1.316	-.784	-.377	-.385	-.198
19	-2.564	-1.888	-1.631	-1.197	-.643	-.309	-.386
20	-2.794	-1.812	-1.606	-1.120	-.517	-.417	-.376
21	-2.322	-1.658	-1.573	-.985	-.653	-.372	-.409
22	-1.650	-1.214	-1.149	-.629	-.327	-.450	-.380
23	-.938	-.620	-.394	-.243	-.145	-.226	-.120
24	-.572	-.226	-.116	-.060	-.045	-.126	-.099
25	-1.576	-1.099	-1.934	.269	.147	-.568	-.056
26	.296	.683	.528	-.369	*000.000	-.285	-.061
27	.277	.866	.884	-.061	-.149	-.283	.001
28	.058	.485	.664	-.124	-.201	-.183	-.052
29	-.289	.331	.541	.410	.067	-.087	-.004
30	.152	.845	.792	.598	.370	.204	.117
31	.154	.835	.751	.855	.763	.394	.037
32	.072	.600	.546	.796	.743	.373	.155
33	.048	.316	.511	.636	.572	.286	.097

$\alpha = 75°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-4.115	-3.945	-4.432	.914	.969	-.457	-.242
2	-4.560	-4.895	-4.831	.961	1.118	-.260	-.227
3	-4.414	-4.922	-4.642	.923	1.169	-.168	-.280
4	-3.577	-4.267	-4.041	.772	.906	.269	-.200
5	-2.832	-3.627	-2.987	.441	.610	-.017	-.218
6	*000.000	*000.000	*000.000	-.289	-.146	-.195	-.070
7	*000.000	*000.000	*000.000	.282	.559	.245	-.068
8	*000.000	*000.000	*000.000	-.767	-.003	-.207	-.151
9	*000.000	*000.000	*000.000	-1.690	-.896	-.183	-.255
10	-1.673	-2.282	-1.694	-1.678	-.739	-.393	-.229
11	-1.166	-1.517	*000.000	-1.014	-.486	-.142	-.261
12	-1.085	-1.013	-.764	-.608	-.293	-.233	-.176
13	-1.362	-.884	-.672	-.510	-.258	-.213	-.273
14	-1.345	-.998	-.747	-.494	-.216	-.231	-.222
15	-.929	-1.737	.249	.256	.187	.122	-.243
16	-.828	-.239	.009	.050	.092	-.013	-.179
17	-1.328	-1.044	-.663	-.462	-.230	-.196	-.051
18	-1.723	-1.469	-1.245	-.759	-.477	-.512	-.307
19	-2.391	-1.694	-1.596	-1.131	-.466	-.375	-.632
20	-1.920	-1.499	-1.454	-.981	-.469	-.486	-.342
21	-1.866	-1.453	-1.428	-.844	-.527	-.428	-.500
22	-1.432	-1.132	-1.135	-.740	-.351	-.283	-.445
23	-.732	-.542	-.414	-.261	-.265	-.267	-.274
24	-.482	-.197	-.124	-.086	-.075	-.239	-.071
25	-2.042	-1.350	-1.888	.263	-.052	-.536	-.153
26	.016	.688	.506	-.464	*000.000	-.421	-.038
27	.174	.863	.938	-.112	-.240	-.283	-.081
28	-.022	.459	.607	-.159	-.154	-.319	-.088
29	-.256	.290	.511	.196	-.055	-.241	.021
30	.090	.801	.857	.373	.127	.195	.012
31	.103	.851	.626	.603	.531	.324	.041
32	.007	.538	.565	.771	.758	.321	-.171
33	.052	.220	.410	.600	.540	.150	.047

$\alpha = 80°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-4.352	-4.019	-4.559	.929	.898	-.383	-.108
2	-4.875	-5.383	-5.097	1.134	1.134	-.136	-.218
3	-4.301	-5.116	-4.657	.935	1.037	-.204	-.117
4	-3.855	-4.637	-4.076	.876	.871	.246	-.104
5	-2.773	-3.646	-3.039	.425	.531	-.113	-.120
6	*000.000	*000.000	*000.000	-.185	-.186	-.245	0.
7	*000.000	*000.000	*000.000	.324	.663	.028	.011
8	*000.000	*000.000	*000.000	-.645	-.051	-.129	.018
9	*000.000	*000.000	*000.000	-1.735	-.701	-.300	-.174
10	-1.514	-2.247	-1.668	-1.616	-.529	-.157	-.099
11	-1.182	-1.497	*000.000	-.970	-.438	-.282	.013
12	-1.003	-.940	-.739	-.544	-.239	-.096	-.089
13	-1.476	-.905	-.712	-.413	-.357	-.276	-.120
14	-1.379	-.902	-.746	-.513	-.298	-.193	-.197
15	-.793	-1.724	.212	.263	.050	.141	-.053
16	-.769	-.220	-.034	.087	.045	.034	.010
17	-1.163	-.972	-.749	-.446	-.349	-.133	-.085
18	-1.797	-1.453	-1.291	-.918	-.580	-.483	-.261
19	-2.108	-1.511	-1.506	-1.002	-.558	-.303	-.255
20	-1.567	-1.414	-1.551	-1.230	-.839	-.514	-.186
21	-1.848	-1.395	-1.428	-1.060	-.556	-.272	-.422
22	-1.367	-1.071	-1.212	-.747	-.410	-.443	-.233
23	-.973	-.601	-.475	-.288	-.357	-.339	-.234
24	-.425	-.203	-.197	-.156	-.072	-.054	.100
25	-2.332	-1.360	-1.976	.111	-.069	-.430	-.043
26	-.134	.552	.391	-.440	*000.000	-.175	.124
27	.011	.737	.779	-.066	-.210	-.010	.038
28	-.035	.410	.539	-.079	-.141	-.106	.088
29	-.228	.242	.400	.323	-.035	-.015	-.002
30	.068	.826	.773	.275	.115	.168	.072
31	.016	.815	.551	.406	.066	.058	.110
32	.002	.521	.426	.888	.441	.100	-.040
33	.018	.204	.362	.589	.589	.076	.045

Table 24. - Continued.

(b) $C_{T,s} = 0.80$, $q_s = 20.02$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.984	.684	.327	-.663	.387	.606	.311
2	.281	-.101	-.181	.130	1.069	1.171	.610
3	.070	-.400	-.431	.364	1.186	1.223	.663
4	-.290	-.759	-.775	.816	1.236	1.229	.442
5	-.551	-1.051	-1.041	.897	.993	.795	.285
6	*000.000	*000.000	*000.000	-.315	-.151	-.144	-.114
7	*000.000	*000.000	*000.000	.736	.794	.641	.344
8	*000.000	*000.000	*000.000	.323	.135	-.008	-.213
9	*000.000	*000.000	*000.000	-.394	-.776	-.866	-.789
10	-.520	-.934	-1.117	-.698	-.719	-.849	-.594
11	-.516	-.992	*000.000	-.804	-.833	-.664	-.553
12	-1.101	-.718	-.726	-.634	-.631	-.406	-.340
13	-.473	-.663	-.720	-.532	-.453	-.360	-.283
14	-.492	-.665	-.662	-.497	-.414	-.326	-.173
15	.093	-1.272	.253	.090	.029	.074	-.004
16	.149	.054	.139	-.008	-.049	.026	-.022
17	-.454	-.785	-.591	-.323	-.196	-.077	-.141
18	-.936	-1.294	-1.267	-.745	-.373	-.326	-.195
19	-1.191	-1.697	-1.729	-1.138	-.559	-.196	-.313
20	-1.384	-1.882	-1.740	-1.299	-.452	-.313	-.310
21	-1.448	-1.660	-1.432	-1.144	-.276	-.194	-.242
22	-1.312	-1.182	-.939	-.726	-.129	-.109	-.067
23	-1.213	-.253	-.153	-.224	-.117	-.083	-.068
24	-.520	-.034	-.108	-.203	-.102	-.084	-.056
25	1.060	1.111	.846	-.960	-.349	-.108	-.133
26	.593	.904	.789	-.696	*000.000	-.550	.025
27	.028	.360	.450	-.223	-.166	-.057	-.207
28	.030	.229	.285	-.252	-.094	-.067	-.048
29	.118	.411	.363	.046	-.135	.026	.016
30	.836	1.059	.932	.060	-.017	-.010	.143
31	.949	1.065	.971	-.049	-.036	-.018	.140
32	.608	.821	.770	.334	-.016	.058	.122
33	.347	.599	.573	.703	.258	.084	.027

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.721	.186	-.350	-.100	.684	.943	.554
2	.020	-.746	-.979	.298	1.109	1.218	.646
3	-.244	-.975	-1.296	.654	1.161	1.216	.519
4	-.534	-1.290	-1.476	.719	1.096	1.071	.404
5	-.734	-1.389	-1.415	.827	.844	.724	.121
6	*000.000	*000.000	*000.000	-.228	-.078	-.023	-.065
7	*000.000	*000.000	*000.000	.702	.717	.699	.234
8	*000.000	*000.000	*000.000	.148	-.150	-.105	-.320
9	*000.000	*000.000	*000.000	-.628	-1.026	-1.053	-.868
10	-.671	-1.121	-1.341	-.860	-.966	-.943	-.741
11	-.601	-1.034	*000.000	-.822	-.910	-.692	-.542
12	-1.150	-.756	-.814	-.636	-.694	-.478	-.380
13	-.545	-.731	-.738	-.534	-.502	-.339	-.257
14	-.629	-.738	-.684	-.507	-.469	-.255	-.204
15	.024	-1.265	.175	.138	.047	.121	.024
16	-.030	.020	.066	.070	-.018	.081	-.016
17	-.566	-.775	-.620	-.293	-.274	-.024	-.084
18	-1.125	-1.387	-1.362	-.777	-.544	-.281	-.249
19	-1.557	-1.844	-1.789	-1.200	-.797	-.393	-.516
20	-1.658	-1.835	-1.688	-1.282	-.711	-.610	-.546
21	-1.787	-1.697	-1.531	-1.158	-.475	-.207	-.307
22	-1.666	-1.131	-.988	-.639	-.174	-.069	-.131
23	-1.293	-.249	-.203	-.211	-.123	-.050	-.114
24	-.513	-.113	-.148	-.172	-.094	-.093	-.104
25	1.117	1.055	.492	-.553	-.119	-.027	-.011
26	.758	1.013	.752	-.574	*000.000	-.223	-.008
27	.220	.556	.674	-.177	-.018	.071	-.115
28	.105	.327	.412	-.177	-.077	.026	-.005
29	.101	.404	.332	.131	-.022	.141	.119
30	.755	1.054	.879	.154	.026	.221	.157
31	.843	1.057	.930	.250	.105	.247	.123
32	.547	.771	.728	.623	.214	.275	.233
33	.327	.545	.521	.626	.202	.233	.126

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.483	-.326	-1.252	.133	.859	1.016	.710
2	-.429	-1.296	-1.978	.543	1.181	1.170	.524
3	-.583	-1.562	-2.079	.552	1.189	1.134	.446
4	-.892	-1.741	-1.951	.778	1.038	.876	.292
5	-1.056	-1.830	-1.847	.744	.735	.561	.165
6	*000.000	*000.000	*000.000	-.137	-.067	-.048	.086
7	*000.000	*000.000	*000.000	.595	.566	.483	.371
8	*000.000	*000.000	*000.000	.023	-.312	-.452	-.472
9	*000.000	*000.000	*000.000	-.763	-1.352	-1.449	-1.139
10	-.746	-1.257	-1.487	-.971	-1.119	-1.158	-.783
11	-.706	-1.200	*000.000	-.945	-1.101	-.990	-.645
12	-1.201	-.798	-.830	-.701	-.748	-.616	-.353
13	-.659	-.789	-.707	-.534	-.591	-.471	-.286
14	-.801	-.820	-.700	-.569	-.560	-.426	-.244
15	-.131	-1.498	.272	.264	.178	.270	-.063
16	-.206	-.017	.049	.057	-.038	-.055	.110
17	-.810	-.832	-.621	-.315	-.465	-.224	-.109
18	-1.341	-1.454	-1.305	-.833	-.763	-.669	-.403
19	-1.922	-1.910	-1.807	-1.334	-1.175	-.655	-.673
20	-2.198	-1.970	-1.740	-1.512	-1.066	-.962	-.839
21	-2.221	-1.677	-1.377	-1.127	-.651	-.580	-.392
22	-2.114	-1.423	-1.082	-.755	-.311	-.309	-.204
23	-1.464	-.274	-.182	-.203	-.133	-.155	-.105
24	-.671	-.182	-.047	-.160	-.134	-.145	-.095
25	1.052	.834	-.006	-.350	.059	.055	.066
26	.921	1.055	.837	-.408	*000.000	-.196	-.023
27	.346	.744	.781	-.189	-.047	-.074	.040
28	.113	.445	.532	-.049	-.059	-.029	.071
29	.098	.460	.457	.228	.147	.104	.210
30	.648	1.040	.967	.296	.178	.152	.188
31	.741	1.008	.933	.581	.221	.228	.245
32	.524	.788	.792	.755	.316	.302	.472
33	.291	.532	.617	.720	.459	.461	.381

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.147	-1.050	-2.215	.461	.987	1.081	.413
2	-.901	-2.098	-2.995	.715	1.223	1.263	.420
3	-.978	-2.288	-2.955	.714	1.132	1.071	.251
4	-1.254	-2.375	-2.842	.670	.975	.811	0.
5	-1.212	-2.100	-2.271	.598	.543	.417	-.124
6	*000.000	*000.000	*000.000	-.198	-.063	-.083	-.094
7	*000.000	*000.000	*000.000	.490	.539	.553	.144
8	*000.000	*000.000	*000.000	-.162	-.550	-.603	-.692
9	*000.000	*000.000	*000.000	-1.123	-1.639	-1.619	-1.370
10	-.887	-1.532	-1.772	-1.168	-1.332	-1.278	-1.053
11	-.785	-1.302	*000.000	-1.059	-1.240	-1.022	-.708
12	-1.293	-.901	-.882	-.782	-.896	-.631	-.379
13	-.790	-.874	-.765	-.653	-.729	-.536	-.268
14	-1.098	-.955	-.797	-.696	-.799	-.583	-.391
15	-.322	-1.619	.328	.350	.251	.325	.017
16	-.410	-.059	.059	.083	-.030	.023	.010
17	-1.116	-1.000	-.754	-.505	-.626	-.362	-.286
18	-1.827	-1.589	-1.296	-.988	-.954	-.924	-.655
19	-2.618	-2.186	-1.758	-1.667	-1.691	-.941	-.950
20	-2.799	-2.143	-1.458	-1.697	-1.606	-1.315	-.953
21	-3.031	-2.083	-1.414	-1.490	-1.195	-.824	-.741
22	-2.537	-1.559	-.958	-.913	-.476	-.635	-.623
23	-1.643	-.527	-.255	-.189	-.176	-.157	-.401
24	-.853	-.181	.023	-.114	-.156	-.226	-.162
25	1.056	.462	-.789	.010	.198	.274	.196
26	.995	1.026	.705	-.357	*000.000	-.069	-.081
27	.476	.862	.830	-.219	-.069	-.025	0.
28	.201	.558	.709	.094	-.078	-.051	-.085
29	.056	.496	.589	.524	.305	.314	.270
30	.516	.898	.865	.620	.493	.437	.255
31	.704	.985	.974	.847	.629	.620	.471
32	.486	.764	.866	.900	.700	.760	.755
33	.283	.519	.671	.722	.609	.468	.324

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.177	-1.656	-3.243	.769	1.144	1.190	.072
2	-1.154	-2.727	-4.055	.933	1.281	1.226	.109
3	-1.403	-2.871	-3.701	.760	1.083	1.044	.037
4	-1.583	-2.893	-3.494	.714	.856	.684	-.273
5	-1.413	-2.437	-2.662	.551	.390	.213	-.442
6	*000.000	*000.000	*000.000	-.158	-.082	-.010	-.126
7	*000.000	*000.000	*000.000	.445	.485	.481	-.140
8	*000.000	*000.000	*000.000	-.379	-.749	-.797	-.939
9	*000.000	*000.000	*000.000	-1.397	-1.922	-1.914	-1.615
10	-1.048	-1.723	-1.893	-1.343	-1.555	-1.501	-1.216
11	-.959	-1.436	*000.000	-1.161	-1.375	-1.159	-.798
12	-1.263	-.929	-.740	-.813	-.954	-.749	-.511
13	-1.082	-.952	-.712	-.682	-.836	-.687	-.438
14	-1.290	-.943	-.717	-.691	-.833	-.630	-.487
15	-.511	-1.644	.411	.466	.442	.266	.122
16	-.617	-.084	.141	.194	.053	.023	-.089
17	-1.347	-1.041	-.668	-.482	-.700	-.477	-.358
18	-2.287	-1.724	-1.279	-1.263	-1.412	-1.273	-.873
19	-3.106	-2.288	-1.627	-1.888	-1.906	-1.323	-1.073
20	-3.446	-2.324	-1.483	-1.867	-1.811	-1.752	-1.205
21	-3.560	-2.217	-1.201	-1.714	-1.574	-1.495	-1.081
22	-2.975	-1.582	-.790	-1.169	-.797	-1.047	-.923
23	-1.698	-.530	-.204	-.221	-.186	-.304	-.519
24	-.971	-.172	.087	-.057	-.168	-.237	-.257
25	.923	.044	-1.342	.266	.364	.260	-.116
26	1.039	1.016	.600	-.295	*000.000	-.127	-.109
27	.570	.956	.960	-.210	-.088	-.058	-.171
28	.225	.622	.829	.344	-.082	-.041	-.057
29	.038	.551	.727	.700	.560	.461	.248
30	.447	.966	1.029	1.038	.804	.628	.168
31	.573	.949	1.062	1.040	.886	.716	.318
32	.426	.785	.941	.887	.901	.772	.449
33	.254	.578	.749	.762	.773	.469	.171

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.761	-2.703	-4.397	.935	1.237	1.229	-.192
2	-1.862	-3.702	-5.039	.825	1.190	1.137	-.432
3	-1.967	-3.731	-4.756	.784	1.002	1.007	-.438
4	-2.069	-3.513	-4.336	.578	.643	.527	-.627
5	-1.855	-2.998	-3.320	.337	.234	.044	-.805
6	*000.000	*000.000	*000.000	-.158	-.100	-.095	-.229
7	*000.000	*000.000	*000.000	.292	.376	.291	-.535
8	*000.000	*000.000	*000.000	-.632	-.989	-.991	-1.022
9	*000.000	*000.000	*000.000	-1.622	-2.068	-2.011	-1.641
10	-1.173	-1.823	-2.036	-1.595	-1.653	-1.579	-1.237
11	-1.017	-1.466	*000.000	-1.324	-1.425	-1.109	-.735
12	-1.301	-.993	-.861	-.917	-.991	-.690	-.462
13	-1.245	-.998	-.773	-.781	-.883	-.677	-.416
14	-1.543	-.973	-.758	-.751	-.862	-.652	-.402
15	-.694	-1.601	.351	.518	.438	.397	.050
16	-.827	-.130	.050	.168	.021	.034	-.072
17	-1.592	-1.045	-.762	-.569	-.887	-.573	-.471
18	-2.513	-1.752	-1.320	-1.237	-1.463	-1.316	-.839
19	-3.467	-2.285	-1.522	-1.965	-2.123	-1.387	-1.059
20	-3.991	-2.435	-1.413	-2.078	-2.029	-1.802	-1.235
21	-3.636	-2.063	-1.126	-1.695	-1.690	-1.523	-1.071
22	-3.056	-1.622	-.890	-1.185	-1.094	-1.326	-.957
23	-1.748	-.610	-.372	-.283	-.207	-.470	-.678
24	-1.216	-.130	-.055	-.219	-.252	-.155	-.232
25	.748	-.447	-2.093	.525	.511	.351	-.200
26	1.033	.952	.588	-.096	*000.000	-.072	-.202
27	.614	1.016	.971	.106	-.132	-.141	-.278
28	.243	.663	.816	.701	-.050	-.034	.066
29	-.026	.543	.672	.643	.621	.410	.163
30	.310	.959	.992	1.054	.974	.845	.015
31	.472	.952	.989	1.111	1.025	.829	.420
32	.360	.766	.902	.955	.991	.763	.466
33	.178	.485	.733	.703	.622	.430	.127

Table 24. - Continued.

(b) $C_{T,S} = 0.80$, $q_s = 20.02$

$\alpha = 35°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-1.068	-3.311	-5.184	.965	1.244	1.227	-.458
2	-2.170	-4.242	-5.678	.756	1.135	1.030	-.669
3	-2.256	-4.197	-5.309	.612	.877	.831	-.688
4	-2.346	-3.903	-4.759	.482	.537	.446	-.844
5	-2.059	-3.295	-3.625	.182	.093	.008	-.857
6	*000.000	*000.000	*000.000	-.055	-.113	-.073	-.146
7	*000.000	*000.000	*000.000	-.238	-.344	-.174	-.602
8	*000.000	*000.000	*000.000	-.912	-1.091	-1.036	-1.101
9	*000.000	*000.000	*000.000	-1.955	-2.289	-2.066	-1.598
10	-1.329	-2.057	-2.362	-1.836	-1.842	-1.541	-.946
11	-1.049	-1.452	*000.000	-1.346	-1.432	-1.017	-.662
12	-1.287	-1.072	-.913	-.995	-1.012	-.665	-.454
13	-1.371	-1.005	-.830	-.815	-.787	-.464	-.340
14	-1.737	-1.001	-.832	-.793	-.865	-.548	-.397
15	-.785	-1.561	.325	.431	.354	.357	-.072
16	-.897	-.139	.063	.114	.050	.095	-.048
17	-1.686	-1.084	-.770	-.616	-.893	-.314	-.213
18	-2.571	-1.760	-1.369	-1.259	-1.543	-1.251	-.624
19	-3.353	-2.197	-1.586	-1.910	-2.075	-1.186	-.873
20	-3.941	-2.385	-1.429	-2.128	-2.033	-1.443	-.960
21	-3.729	-2.107	-1.165	-1.641	-1.648	-1.329	-.719
22	-3.143	-1.617	-1.003	-1.298	-1.211	-1.325	-.793
23	-1.639	-.559	-.477	-.224	-.291	-.459	-.537
24	-1.101	-.129	-.114	-.218	-.128	-.117	-.201
25	.496	-.903	-2.573	.744	.609	.478	-.277
26	1.170	.925	.502	-.010	*000.000	-.093	-.074
27	.740	1.003	.948	-.027	-.058	-.075	-.226
28	.285	.721	.790	.809	.246	-.099	.079
29	.014	.582	.664	.621	.643	.384	.219
30	.331	.987	1.034	1.040	1.095	1.042	.238
31	.485	.979	1.049	1.129	1.213	1.106	.375
32	.388	.779	.798	.914	.960	.821	.494
33	.204	.480	.648	.638	.636	.396	.050

$\alpha = 40°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-1.655	-3.931	-5.950	1.011	1.305	1.148	-.599
2	-2.871	-5.118	-6.671	.731	1.073	.904	-.911
3	-3.061	-5.115	-6.267	.604	.809	.775	-.909
4	-2.960	-4.594	-5.392	.310	.451	.240	-1.033
5	-2.361	-3.568	-3.906	.062	-.005	-.164	-.929
6	*000.000	*000.000	*000.000	.015	-.075	-.059	-.219
7	*000.000	*000.000	*000.000	-.125	.117	-.267	-.480
8	*000.000	*000.000	*000.000	-1.112	-1.199	-1.106	-1.006
9	*000.000	*000.000	*000.000	-2.213	-2.446	-2.202	-1.267
10	-1.480	-2.046	-2.283	-2.120	-1.817	-1.510	-.816
11	-1.193	-1.553	*000.000	-1.453	-1.435	-1.044	-.591
12	-1.367	-1.084	-.973	-1.015	-.962	-.657	-.255
13	-1.480	-.969	-.844	-.776	-.757	-.503	-.037
14	-1.925	-1.043	-.862	-.820	-.841	-.554	-.246
15	-.888	-1.484	.335	.494	.417	.354	-.051
16	-.998	-.181	.013	.158	.073	-.087	.053
17	-1.938	-1.215	-.872	-.627	-.932	-.566	-.366
18	-2.798	-1.802	-1.440	-1.455	-1.515	-.961	-.561
19	-3.498	-2.238	-1.713	-1.978	-2.125	-1.126	-.767
20	-3.768	-2.387	-1.564	-2.126	-1.855	-1.438	-1.047
21	-3.576	-2.098	-1.349	-1.779	-1.715	-1.191	-.857
22	-3.044	-1.433	-1.042	-1.210	-1.179	-.766	-.422
23	-1.772	-.522	-.587	-.263	-.301	-.728	-.540
24	-1.236	-.194	-.207	-.154	-.048	-.323	-.043
25	.206	-1.286	-3.087	.817	.727	.391	-.139
26	1.029	.808	.376	-.031	*000.000	-.121	-.058
27	.806	1.119	1.026	.089	-.097	-.081	-.031
28	.253	.758	.859	.798	.531	-.176	.256
29	-.140	.577	.675	.647	.612	.390	.291
30	.172	.994	1.033	1.026	1.121	.881	.214
31	.371	1.034	.955	1.134	1.261	1.026	.234
32	.322	.774	.812	.923	1.018	.775	.433
33	.173	.478	.564	.658	.677	.310	.057

$\alpha = 45°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-2.189	-4.673	-6.516	1.061	1.295	1.151	-.757
2	-3.441	-5.610	-7.096	.695	1.008	.847	-.948
3	-3.595	-5.683	-6.691	.436	.723	.598	-1.184
4	-3.247	-4.909	-5.605	.203	.338	.134	-.997
5	-2.680	-3.807	-3.987	.011	-.081	-.120	-.804
6	*000.000	*000.000	*000.000	-.066	-.105	-.199	-.240
7	*000.000	*000.000	*000.000	-.284	-.083	-.155	-.464
8	*000.000	*000.000	*000.000	-1.258	-1.214	-.935	-.740
9	*000.000	*000.000	*000.000	-2.530	-2.577	-1.992	-.975
10	-1.737	-2.331	-2.449	-2.347	-2.031	-1.621	-.856
11	-1.371	-1.615	*000.000	-1.498	-1.409	-.907	-.382
12	-1.355	-1.138	-.954	-1.030	-.903	-.504	-.317
13	-1.725	-1.029	-.926	-.829	-.741	-.476	-.335
14	-2.068	-1.129	-.963	-.824	-.764	-.425	-.480
15	-.963	-1.546	.392	.504	.350	.376	-.193
16	-1.048	-.222	.006	.130	.044	-.044	-.173
17	-1.998	-1.221	-.865	-.645	-.871	-.441	-.420
18	-2.786	-1.873	-1.556	-1.476	-1.599	-1.168	-.663
19	-3.443	-2.199	-1.782	-2.049	-1.953	-.704	-.655
20	-3.801	-2.318	-1.704	-2.228	-1.958	-.931	-.819
21	-3.512	-1.847	-1.434	-1.766	-1.672	-1.021	-.834
22	-2.688	-1.417	-1.216	-1.369	-1.230	-.820	-.722
23	-1.759	-.651	-.631	-.252	-.544	-.613	-.543
24	-1.053	-.271	-.232	-.083	-.139	-.429	-.240
25	-.200	-1.496	-3.564	.973	.776	.520	-.283
26	1.030	.741	.337	-.097	*000.000	-.137	-.150
27	.713	1.031	.931	.041	-.125	-.155	-.156
28	.219	.790	.892	.787	.546	-.140	.199
29	-.155	.524	.671	.594	.497	.269	.228
30	.096	.995	1.050	1.027	1.101	.738	.166
31	.302	1.004	.955	1.119	1.230	.970	.225
32	.262	.810	.793	.935	.926	.590	.324
33	.109	.460	.509	.655	.578	.199	-.088

$\alpha = 50°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-2.783	-5.174	-6.673	1.030	1.237	1.103	-1.020
2	-3.800	-5.829	-6.752	.678	.906	.838	-.739
3	-4.084	-5.944	-6.676	.383	.601	.490	-1.243
4	-3.750	-5.221	-5.659	.135	.262	.180	-.854
5	-2.962	-4.049	-4.096	-.098	-.148	-.143	-.902
6	*000.000	*000.000	*000.000	.084	-.061	.034	-.205
7	*000.000	*000.000	*000.000	-.367	-.202	.076	-.333
8	*000.000	*000.000	*000.000	-1.418	-1.275	-.680	-.682
9	*000.000	*000.000	*000.000	-2.576	-2.503	-1.532	-.674
10	-1.770	-2.422	-2.336	-2.355	-1.894	-1.096	-.515
11	-1.371	-1.612	*000.000	-1.455	-1.242	-.522	-.338
12	-1.339	-1.178	-.933	-1.030	-.867	-.385	-.278
13	-2.042	-1.242	-1.002	-.900	-.702	-.344	-.282
14	-2.168	-1.176	-.945	-.862	-.655	-.248	-.323
15	-.979	-1.404	.320	.503	.382	.349	-.139
16	-1.100	-.256	.033	.114	.217	.258	-.128
17	-1.716	-1.194	-.771	-.667	-.659	-.099	-.192
18	-2.515	-1.913	-1.527	-1.431	-1.128	-.542	-.538
19	-3.375	-2.226	-1.871	-1.978	-1.448	-.788	-.574
20	-3.569	-2.036	-1.689	-2.030	-1.522	-.999	-.709
21	-3.329	-1.903	-1.501	-1.865	-1.682	-.845	-.890
22	-2.497	-1.364	-1.262	-1.270	-1.005	-.519	-.553
23	-1.571	-.753	-.584	-.332	-.546	-.434	-.513
24	-.955	-.350	-.251	-.084	-.161	-.281	-.334
25	-.675	-2.198	-3.612	.968	.786	.463	-.493
26	.949	.661	.248	.059	*000.000	.008	-.198
27	.680	.987	.921	.068	-.143	-.111	-.201
28	.294	.788	.938	.854	.681	.100	.113
29	-.181	.512	.679	.607	.512	.321	.127
30	.162	.947	.990	1.044	.998	.716	-.067
31	.325	1.026	.914	1.098	1.164	.987	.187
32	.246	.794	.719	.903	.884	.648	.370
33	.130	.455	.560	.683	.528	.264	-.121

$\alpha = 55°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-3.953	-5.584	-6.837	1.053	1.249	.796	-.755
2	-4.672	-6.473	-7.219	.692	.921	.700	-.694
3	-4.656	-6.263	-6.617	.385	.601	.510	-.768
4	-4.017	-5.395	-5.625	-.006	.165	.209	-.794
5	-3.254	-4.368	-4.158	-.161	-.154	-.186	-.764
6	*000.000	*000.000	*000.000	.104	-.050	-.059	-.100
7	*000.000	*000.000	*000.000	-.484	-.156	.253	-.419
8	*000.000	*000.000	*000.000	-1.414	-1.187	-.504	-.390
9	*000.000	*000.000	*000.000	-2.693	-2.338	-1.335	-.501
10	-1.925	-2.534	-2.335	-2.445	-1.776	-.873	-.326
11	-1.449	-1.763	*000.000	-1.563	-1.213	-.477	-.247
12	-1.422	-1.243	-.945	-.984	-.631	-.137	-.129
13	-1.877	-1.154	-.914	-.837	-.612	-.278	-.158
14	-2.029	-1.157	-.957	-.854	-.631	-.313	-.229
15	-.933	-1.449	.375	.525	.447	.354	-.050
16	-.955	-.243	.024	.160	.172	.089	-.058
17	-1.712	-1.315	-.868	-.693	-.486	-.243	-.230
18	-2.730	-1.936	-1.531	-1.413	-1.254	-.821	-.649
19	-3.079	-2.081	-1.814	-1.923	-1.433	-.586	-.557
20	-3.094	-2.105	-1.779	-2.076	-1.552	-.538	-.515
21	-2.769	-1.817	-1.666	-1.778	-1.525	-.937	-.900
22	-2.294	-1.417	-1.277	-1.139	-.791	-.468	-.509
23	-1.307	-.734	-.540	-.418	-.492	-.425	-.497
24	-.790	-.321	-.235	-.003	-.114	-.130	-.113
25	-1.374	-2.419	-3.739	1.010	.847	.269	-.406
26	.441	.611	.222	-.395	*000.000	-.054	-.171
27	.500	1.077	1.025	.057	-.090	.009	-.070
28	.179	.755	.917	.814	.842	.034	.122
29	-.211	.492	.699	.568	.482	.288	.228
30	.219	.953	.945	1.023	.981	.655	.042
31	.273	1.099	.789	1.188	1.281	.952	.209
32	.209	.766	.687	.924	.887	.654	.190
33	.131	.401	.473	.605	.513	.317	-.052

$\alpha = 60°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-4.700	-6.073	-6.796	1.044	1.227	.507	-.716
2	-5.475	-7.249	-7.569	.558	.814	.364	-.983
3	-5.370	-7.080	-6.936	.305	.500	.286	-.783
4	-4.521	-6.013	-5.780	-.026	.072	.036	-.791
5	-3.441	-4.732	-4.181	-.197	-.115	.078	-.440
6	*000.000	*000.000	*000.000	-.003	-.133	-.032	-.096
7	*000.000	*000.000	*000.000	-.495	-.175	.336	-.171
8	*000.000	*000.000	*000.000	-1.625	-1.309	-.475	-.345
9	*000.000	*000.000	*000.000	-2.629	-2.287	-1.188	-.430
10	-1.809	-2.490	-2.196	-2.309	-1.500	-.626	-.185
11	-1.333	-1.672	*000.000	-1.443	-1.001	-.352	-.151
12	-1.494	-1.261	-.971	-1.007	-.724	-.234	-.208
13	-1.744	-1.143	-.964	-.852	-.580	-.271	-.180
14	-1.839	-1.142	-.943	-.828	-.663	-.317	-.128
15	-.933	-1.309	.271	.445	.345	.260	-.016
16	-.995	-.302	-.068	.073	.159	.071	-.071
17	-1.576	-1.322	-.877	-.724	-.488	-.127	-.164
18	-2.271	-1.859	-1.602	-1.359	-1.085	-.706	-.415
19	-2.747	-2.097	-1.916	-1.932	-1.325	-.630	-.558
20	-2.875	-2.066	-1.872	-1.892	-1.271	-.674	-.488
21	-2.440	-1.757	-1.663	-1.568	-1.059	-.581	-.529
22	-1.887	-1.382	-1.364	-1.169	-.962	-.563	-.389
23	-1.202	-.659	-.455	-.359	-.370	-.336	-.305
24	-.679	-.303	-.262	-.148	-.225	-.226	-.188
25	-2.630	-2.826	-3.924	1.000	.838	.092	-.626
26	.034	.583	.267	-.217	*000.000	-.024	-.104
27	.253	1.006	1.004	.078	-.078	-.100	-.092
28	.097	.722	.898	.774	.807	.136	.169
29	-.247	.419	.632	.537	.437	.235	.157
30	.128	1.037	.863	1.086	.983	.670	.061
31	.191	1.085	.699	1.143	1.182	.665	.186
32	.137	.696	.593	.866	.821	.492	.305
33	.037	.275	.446	.543	.420	.226	.040

Table 24. - Continued.

(b) $C_{T,s} = 0.80$, $q_s = 20.02$

$\alpha = 65°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-5.425	-7.054	-7.020	1.035	1.279	.401	-.488
2	-5.700	-7.782	-7.294	.494	.843	.403	-.405
3	-5.461	-7.568	-6.912	.384	.621	.485	-.294
4	-4.201	-6.230	-5.682	-.008	.231	.307	-.273
5	-3.224	-4.929	-4.123	-.239	-.109	.089	-.187
6	*000.000	*000.000	*000.000	.018	.017	-.004	.070
7	*000.000	*000.000	*000.000	-.558	-.052	.258	-.017
8	*000.000	*000.000	*000.000	-1.590	-1.126	-.321	-.306
9	*000.000	*000.000	*000.000	-2.701	-2.128	-.877	-.298
10	-1.679	-2.681	-2.312	-2.488	-1.542	-.637	-.258
11	-1.191	-1.653	*000.000	-1.411	-.912	-.315	-.181
12	-1.340	-1.176	-.911	-.905	-.569	-.169	-.099
13	-1.649	-1.092	-.920	-.788	-.566	-.296	-.174
14	-1.467	-1.066	-.891	-.734	-.470	-.256	-.186
15	-.798	-1.214	.312	.389	.307	.263	-.030
16	-.842	-.265	-.018	.153	.228	.194	.005
17	-1.290	-1.196	-.803	-.648	-.553	-.139	-.159
18	-1.674	-1.554	-1.314	-1.077	-.667	-.401	-.274
19	-2.178	-1.893	-1.750	-1.467	-.794	-.385	-.479
20	-2.124	-1.814	-1.707	-1.678	-.803	-.343	-.333
21	-1.853	-1.607	-1.640	-1.238	-.697	-.507	-.525
22	-1.434	-1.213	-1.329	-.930	-.611	-.625	-.548
23	-.802	-.457	-.363	-.330	-.405	-.382	-.350
24	-.485	-.253	-.243	-.112	-.149	-.206	-.119
25	-3.661	-3.415	-3.842	1.009	.860	.065	-.393
26	-.365	.333	.292	-.256	*000.000	0.	-.122
27	.017	.939	1.013	.089	-.051	-.036	.051
28	.083	.622	.916	.808	.803	.177	.196
29	-.195	.326	.560	.472	.413	.197	.210
30	.203	1.074	.869	1.171	1.150	.754	.098
31	.181	1.034	.668	1.209	1.244	.972	.096
32	.073	.617	.616	.853	.809	.483	.277
33	.124	.289	.470	.664	.493	.302	.117

$\alpha = 70°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-5.668	-7.449	-6.890	.954	1.145	.367	-.097
2	-5.366	-7.876	-7.245	.397	.717	.116	-.138
3	-5.204	-7.822	-6.996	.171	.433	.273	-.318
4	-3.995	-6.192	-5.374	-.106	.238	.232	-.191
5	-2.820	-4.775	-3.877	-.344	-.179	.012	-.157
6	*000.000	*000.000	*000.000	-.100	-.076	-.039	-.033
7	*000.000	*000.000	*000.000	-.557	.008	.185	-.136
8	*000.000	*000.000	*000.000	-1.666	-1.066	-.233	-.340
9	*000.000	*000.000	*000.000	-2.789	-1.993	-.703	-.334
10	-1.570	-2.571	-2.177	-2.425	-1.338	-.398	-.211
11	-1.233	-1.680	*000.000	-1.432	-.822	-.330	-.200
12	-1.467	-1.343	-1.054	-1.022	-.642	-.256	-.104
13	-1.557	-1.115	-.913	-.771	-.483	-.376	-.238
14	-1.597	-1.049	-.851	-.714	-.404	-.245	-.165
15	-.956	-1.225	.307	.431	.314	.277	-.053
16	-.778	-.199	.010	.131	.226	.141	0.
17	-1.246	-1.089	-.756	-.626	-.495	-.141	-.133
18	-1.544	-1.425	-1.237	-.927	-.750	-.550	-.412
19	-1.689	-1.613	-1.678	-1.394	-.880	-.496	-.422
20	-1.619	-1.528	-1.584	-1.012	-.643	-.424	-.509
21	-1.616	-1.408	-1.451	-.866	-.478	-.318	-.348
22	-1.174	-1.065	-1.218	-.997	-.731	-.468	-.392
23	-.681	-.444	-.399	-.391	-.451	-.358	-.273
24	-.522	-.286	-.181	-.259	-.272	-.229	-.196
25	-4.450	-3.975	-3.972	1.013	.785	-.044	-.151
26	-.873	.034	.300	-.304	*000.000	-.032	-.127
27	-.370	.584	.928	.016	-.087	-.029	-.080
28	-.088	.420	.798	.684	.337	.220	.170
29	-.220	.239	.453	.413	.346	.287	.230
30	.026	.927	.716	.875	.876	.574	.056
31	.172	.933	.631	1.033	1.094	.753	.109
32	.073	.468	.498	.794	.668	.495	.187
33	0.	.080	.370	.462	.375	.199	.048

$\alpha = 75°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-4.743	-6.999	-6.525	.956	1.173	.212	-.028
2	-4.004	-7.403	-6.670	.588	.972	.183	-.133
3	-4.239	-7.673	-6.665	.387	.723	.298	-.113
4	-2.877	-5.652	-5.181	-.093	.213	-.060	-.168
5	-2.301	-4.382	-3.658	-.183	.036	.189	-.019
6	*000.000	*000.000	*000.000	-.072	-.008	-.016	0.
7	*000.000	*000.000	*000.000	-.579	.149	.131	-.139
8	*000.000	*000.000	*000.000	-1.500	-.840	-.069	-.131
9	*000.000	*000.000	*000.000	-2.419	-1.374	-.294	-.268
10	-1.419	-2.231	-2.037	-2.359	-1.087	-.273	-.316
11	-1.011	-1.310	*000.000	-1.277	-.730	-.219	-.183
12	-1.126	-.990	-.840	-.707	-.422	-.185	-.117
13	-1.294	-.894	-.767	-.741	-.398	-.281	-.267
14	-1.178	-.817	-.757	-.604	-.295	-.165	-.192
15	-.634	-1.131	.187	.406	.334	.324	-.007
16	-.770	-.226	-.099	.173	.136	.025	-.086
17	-.905	-.829	-.695	-.431	-.304	-.120	-.181
18	-1.271	-1.160	-1.134	-.786	-.703	-.643	-.397
19	-.998	-1.117	-1.425	-1.022	-.909	-.430	-.600
20	-1.238	-1.163	-1.238	-1.010	-.425	-.382	-.462
21	-1.098	-1.121	-1.393	-.854	-.668	-.466	-.517
22	-.843	-.855	-.952	-.700	-.609	-.520	-.376
23	-.646	-.431	-.426	-.320	-.291	-.289	-.230
24	-.371	-.223	-.205	-.218	-.154	-.143	-.095
25	-3.957	-4.184	-3.328	.915	.618	.105	.019
26	-.957	-.244	.280	-.189	*000.000	-.029	-.025
27	-.418	.324	.854	-.060	-.003	-.031	-.051
28	-.089	.353	.702	.669	.058	.065	.147
29	-.155	.231	.423	.367	.314	.289	.218
30	.138	.772	.517	.870	.784	.396	.092
31	.119	.752	.566	1.048	.947	.506	.251
32	.032	.456	.524	.736	.628	.374	.291
33	.016	.147	.331	.418	.361	.271	.158

Table 24. - Continued.

(c) $C_{T,s} = 0.60$, $q_s = 21.24$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.901	.667	.249	.096	.735	.694	.635
2	.241	-.198	-.365	.551	1.147	1.152	.890
3	-.006	-.389	-.474	.628	1.182	1.148	.862
4	-.426	-.842	-.829	.726	1.148	1.057	.697
5	-.706	-1.323	-1.229	.777	.947	.804	.459
6	*000.000	*000.000	*000.000	-.288	-.120	-.176	-.229
7	*000.000	*000.000	*000.000	.501	.646	.593	.392
8	*000.000	*000.000	*000.000	-.197	-.220	-.296	-.359
9	*000.000	*000.000	*000.000	-1.066	-1.204	-1.245	-1.166
10	-.578	-1.130	-1.345	-1.155	-1.099	-1.084	-.936
11	-.748	-1.179	*000.000	-1.080	-1.098	-.968	-.822
12	-1.204	-.891	-.909	-.804	-.785	-.661	-.537
13	-.594	-.820	-.758	-.622	-.574	-.475	-.359
14	-.007	-.357	.137	.098	.020	.109	-.081
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	.006	-.008	.056	-.015	-.084	-.008	-.104
17	-.644	-.928	-.664	-.342	-.277	-.139	-.240
18	-1.187	-1.449	-1.284	-.712	-.472	-.435	-.594
19	-1.591	-1.868	-1.734	-1.164	-.704	-.423	-.612
20	-1.794	-1.866	-1.619	-1.193	-.570	-.461	-.602
21	-1.950	-1.754	-1.426	-1.018	-.335	-.399	-.621
22	-1.748	-1.198	-.916	-.525	-.131	-.191	-.346
23	-1.362	-.270	-.193	-.287	-.137	-.142	-.171
24	-.669	-.171	-.078	-.187	-.107	-.110	-.195
25	1.028	1.075	.512	-.536	-.176	-.183	-.144
26	.559	.894	.597	-.395	*000.000	-.418	.411
27	.027	.261	.179	-.185	-.031	-.183	-.225
28	-.004	.163	.227	-.173	-.114	-.096	-.131
29	.088	.393	.300	.072	-.023	.096	.107
30	.829	1.078	.924	-.009	.061	.177	.148
31	.859	1.053	.949	.236	.016	.150	.290
32	.537	.760	.665	.503	.231	.178	.310
33	.320	.573	.516	.464	.220	.215	.240

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.582	.099	-.604	.235	1.015	.959	.788
2	-.226	-.974	-1.403	.388	1.219	1.137	.854
3	-.452	-1.214	-1.448	.473	1.187	1.087	.792
4	-.820	-1.504	-1.632	.692	1.025	.904	.575
5	-.988	-1.686	-1.680	.486	.649	.548	.301
6	*000.000	*000.000	*000.000	-.131	-.012	-.078	-.048
7	*000.000	*000.000	*000.000	.291	.469	.434	.370
8	*000.000	*000.000	*000.000	-.517	-.611	-.691	-.680
9	*000.000	*000.000	*000.000	-1.421	-1.807	-1.786	-1.561
10	-1.326	-.934	-.873	.873	.921	-.772	-.538
11	-.863	-1.286	*000.000	-1.212	-1.298	-1.173	-.842
12	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
13	-.857	-.912	-.630	-.426	-.482	-.360	-.352
14	-.976	-.909	-.807	-.685	-.670	-.588	-.399
15	-.147	-.392	.192	.238	.185	.177	-.111
16	-.219	-.030	.046	.013	-.020	-.073	-.019
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	-1.598	-1.516	-1.306	-.812	-.723	-.865	-.766
19	-2.176	-1.948	-1.765	-1.318	-1.079	-.803	-.849
20	-2.637	-2.110	-1.839	-1.584	-1.242	-1.215	-.977
21	-2.639	-1.868	-1.441	-1.014	-.603	-.860	-.901
22	-2.378	-1.336	-1.054	-.523	-.197	-.319	-.425
23	-1.499	-.261	-.232	-.247	-.188	-.241	-.219
24	-.884	-.219	-.013	-.221	-.136	-.230	-.226
25	1.120	1.055	.165	.109	.127	.104	.232
26	.471	1.093	.648	-.137	*000.000	-.157	.400
27	.232	.591	.585	-.050	.016	-.045	-.079
28	.087	.308	.437	-.003	.036	-.028	.004
29	.084	.417	.412	.260	.137	.157	.234
30	.687	1.111	.944	.210	.233	.173	.610
31	.770	.993	.829	.341	.295	.303	.608
32	.520	.853	.694	.594	.309	.449	.795
33	.282	.572	.571	.651	.406	.456	.274

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.100	-1.017	-2.163	.623	1.233	1.227	.870
2	-.868	-1.953	-2.579	.616	1.202	1.139	.655
3	-1.174	-2.415	-2.893	.570	1.163	1.060	.512
4	-1.281	-2.322	-2.578	.386	.842	.720	.183
5	-1.360	-2.169	-2.118	.217	.381	.240	-.047
6	*000.000	*000.000	*000.000	-.057	.094	.095	.054
7	*000.000	*000.000	*000.000	.127	.392	.050	-.277
8	*000.000	*000.000	*000.000	-.808	-.920	-.958	-1.082
9	*000.000	*000.000	*000.000	-1.767	-2.241	-2.161	-1.965
10	-1.115	-1.734	-1.915	-1.773	-1.859	-1.822	-1.621
11	-1.025	-1.483	*000.000	-1.443	-1.611	-1.410	-1.156
12	-1.387	-1.004	-.934	-.913	-1.041	-.845	-.678
13	-.970	-1.022	-.887	-.808	-.866	-.770	-.614
14	-.352	-.533	.186	.299	.290	.292	-.155
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	-.453	-.095	-.021	.055	-.015	-.053	-.119
17	-1.152	-1.064	-.723	-.478	-.659	-.553	-.486
18	-1.984	-1.725	-1.432	-1.118	-1.103	-1.191	-.913
19	-2.946	-2.347	-1.956	-1.757	-1.823	-1.291	-1.224
20	-3.472	-2.529	-1.972	-1.943	-1.670	-1.601	-1.267
21	-3.330	-2.257	-1.646	-1.537	-1.329	-1.261	-1.069
22	-2.909	-1.626	-1.135	-1.034	-.689	-.859	-.871
23	-1.589	-.374	-.244	-.171	-.182	-.188	-.417
24	-1.068	-.185	-.045	-.126	-.139	-.208	-.279
25	1.011	.592	-.708	.303	.382	.417	.285
26	.946	1.050	.547	-.114	*000.000	.098	.252
27	.449	.807	.749	-.013	.053	.051	-.105
28	.171	.475	.579	.326	.059	.033	.012
29	.078	.462	.487	.528	.477	.467	.337
30	.488	.952	.856	.805	.641	.531	.127
31	.638	1.010	.894	.885	.785	.714	.604
32	.430	.781	.731	.791	.819	.798	.681
33	.220	.538	.530	.613	.633	.524	.300

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.530	-2.199	-3.880	.750	1.286	1.221	.710
2	-1.658	-3.569	-4.877	.575	1.164	1.098	.476
3	-1.704	-3.479	-4.493	.378	.836	.758	.145
4	-.329	-.294	-.211	.025	.053	.004	-.080
5	-1.681	-2.711	-2.969	-.044	.037	-.063	-.460
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	-.278	-.264	-.367	-.624
8	*000.000	*000.000	*000.000	-1.165	-1.453	-1.484	-1.564
9	*000.000	*000.000	*000.000	-2.258	-2.635	-2.587	-2.336
10	-1.283	-1.935	-2.188	-2.045	-2.172	-2.086	-1.797
11	-1.097	-1.587	*000.000	-1.591	-1.764	-1.589	-1.274
12	-1.590	-1.135	-1.052	-1.087	-1.250	-1.050	-.774
13	-1.193	-1.107	-.930	-.874	-1.035	-.911	-.678
14	-1.661	-1.167	-.955	-.865	-1.073	-.917	-.751
15	-.600	-.606	.329	.523	.396	.389	.015
16	-.798	-.178	.018	.162	-.037	-.125	-.200
17	-1.509	-1.110	-.742	-.509	-.903	-.662	-.574
18	-2.450	-1.816	-1.429	-1.201	-1.541	-1.590	-1.002
19	-3.634	-2.525	-1.922	-2.016	-2.091	-1.567	-1.276
20	-3.979	-2.584	-1.760	-2.009	-1.981	-1.846	-1.319
21	-4.023	-2.426	-1.511	-1.735	-1.704	-1.647	-1.214
22	-3.062	-1.653	-1.031	-1.034	-.778	-1.057	-.966
23	-1.725	-.578	-.219	-.247	-.225	-.312	-.609
24	-1.407	-.266	.001	-.137	-.244	-.252	-.322
25	.727	-.157	-1.664	.629	.719	.695	.507
26	.997	.960	.465	-.216	*000.000	.003	.222
27	.602	.950	.843	.146	.015	.037	-.251
28	.285	.630	.719	.717	.176	.160	.627
29	.095	.546	.665	.687	.670	.596	.442
30	.338	.993	.950	1.068	.990	.781	.035
31	.532	1.002	.974	1.144	1.100	.968	.556
32	.382	.820	.784	.974	1.009	.811	.795
33	.223	.534	.594	.661	.675	.542	.204

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.080	-3.381	-5.287	.808	1.343	1.295	.333
2	-2.252	-4.542	-5.945	.309	.882	.796	-.176
3	-2.319	-4.537	-5.859	.173	.546	.503	-.297
4	-2.260	-4.010	-4.873	-.134	.192	.053	-.650
5	-2.417	-3.958	-4.459	-.399	-.319	-.463	-.935
6	*000.000	*000.000	*000.000	.036	-.035	-.124	-.224
7	*000.000	*000.000	*000.000	-.710	-.677	-.698	-.870
8	*000.000	*000.000	*000.000	-1.667	-1.746	-1.731	-1.796
9	*000.000	*000.000	*000.000	-2.812	-3.259	-3.084	-2.640
10	-1.430	-2.202	-2.562	-2.452	-2.451	-2.301	-1.865
11	-1.157	-1.653	*000.000	-1.633	-1.772	-1.398	-.869
12	-1.713	-1.294	-1.101	-1.184	-1.290	-.987	-.842
13	-1.384	-1.216	-.972	-.936	-1.095	-.943	-.751
14	-.811	-.670	.335	.554	.410	.372	-.025
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	-1.072	-.210	.006	.158	-.020	-.288	-.107
17	-2.060	-1.355	-.918	-.658	-1.123	-.945	-.663
18	-2.936	-1.991	-1.489	-1.384	-1.791	-1.777	-1.058
19	-3.902	-2.508	-1.808	-1.990	-2.174	-1.715	-1.053
20	-4.186	-2.507	-1.544	-2.140	-2.032	-1.462	-.872
21	-4.241	-2.560	-1.511	-1.752	-1.874	-1.748	-1.221
22	-3.631	-1.929	-1.076	-1.355	-1.278	-1.331	-.922
23	-1.904	-.652	-.379	-.250	-.282	-.460	-.561
24	-1.992	-.156	-.085	-.215	-.259	-.270	-.413
25	.451	-1.072	-2.806	.920	.930	.898	.309
26	.995	.845	.398	-.239	*000.000	-.053	.195
27	.711	.991	.960	.365	-.035	.053	-.123
28	.331	.737	.840	.843	.433	.401	.600
29	.061	.576	.685	.678	.657	.541	.385
30	.224	.983	.975	1.120	1.145	1.108	.064
31	.423	1.040	1.016	1.231	1.296	1.295	.669
32	.376	.798	.748	.938	.964	.886	.714
33	.236	.551	.614	.684	.680	.518	.124

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.823	-4.608	-6.482	.933	1.364	1.342	-.261
2	-2.831	-5.576	-7.082	.302	.906	.817	-.552
3	-2.774	-5.396	-6.665	-.044	.386	.384	-.852
4	-.640	-.451	-.259	.096	.046	.073	-.024
5	-2.427	-3.942	-4.345	-.414	-.348	-.408	-.909
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	-.664	-.586	-.413	-.590
8	*000.000	*000.000	*000.000	-2.031	-2.007	-1.648	-1.485
9	*000.000	*000.000	*000.000	-2.849	-2.938	-2.442	-1.670
10	-1.580	-2.395	-2.603	-2.444	-2.144	-1.595	-.821
11	-1.267	-1.736	*000.000	-1.573	-1.291	-.686	-.560
12	-1.445	-1.150	-.933	-.911	-.664	-.688	-.588
13	-1.449	-1.132	-.849	-.816	-.787	-.898	-.791
14	-2.116	-1.140	-.863	-.565	-.647	-.635	-.571
15	-.922	-.686	.358	.543	.463	.345	.085
16	-1.186	-.207	.041	.253	.099	.063	-.159
17	-2.139	-1.234	-.883	-.502	-.703	-.504	-.538
18	-3.238	-1.881	-1.521	-.951	-.964	-1.027	-.768
19	-4.056	-2.293	-1.770	-1.107	-1.004	-1.095	-.707
20	-4.239	-2.364	-1.686	-.919	-.785	-.681	-.814
21	-3.852	-2.122	-1.416	-1.083	-.752	-.651	-.634
22	-3.203	-1.581	-1.077	-.667	-.576	-.561	-.563
23	-1.974	-.557	-.485	-.438	-.454	-.505	-.539
24	-1.431	-.138	-.115	-.346	-.368	-.461	-.426
25	.120	-1.644	-3.373	1.008	.977	.932	.101
26	.991	.714	.301	-.187	*000.000	.135	.177
27	.811	1.024	.981	.559	-.047	.146	.013
28	.399	.813	.978	.903	1.039	.482	.410
29	.069	.599	.754	.669	.668	.539	.353
30	.180	.903	.978	1.081	1.135	1.069	.056
31	.390	1.023	.950	1.183	1.301	1.242	.452
32	.394	.818	.842	.997	1.006	.879	.718
33	.237	.525	.620	.638	.601	.450	.053

Table 24. - Continued.

(c) $C_{T,S} = 0.60$, $q_S = 21.24$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.217	-5.515	-7.266	.868	1.262	1.205	-.342
2	-3.430	-6.536	-7.912	.234	.725	.678	-.799
3	-3.297	-6.007	-7.160	-.007	.367	.398	-.793
4	-3.227	-5.381	-6.225	-.319	-.075	-.131	-.994
5	-2.560	-3.952	-4.308	-.435	-.419	-.510	-.899
6	*000.000	*000.000	*000.000	.075	.072	.053	-.053
7	*000.000	*000.000	*000.000	-.900	-.681	-.472	-.633
8	*000.000	*000.000	*000.000	-2.119	-1.898	-1.389	-1.038
9	*000.000	*000.000	*000.000	-3.094	-2.972	-2.214	-.990
10	-1.794	-2.540	-2.719	-2.618	-1.983	-1.210	-.526
11	-1.332	-1.664	*000.000	-1.348	-.599	-.409	-.374
12	-1.498	-1.218	-.967	-.660	-.533	-.573	-.562
13	-1.702	-1.036	-.819	-.507	-.538	-.540	-.547
14	-.989	-.711	.393	.589	.485	.414	.065
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	-1.253	-.137	.060	.357	.195	.027	-.146
17	-2.265	-1.135	-.782	-.443	-.580	-.402	-.457
18	-3.390	-1.702	-1.498	-.855	-.803	-.825	-.677
19	-4.512	-2.308	-1.914	-1.113	-1.060	-.943	-.758
20	.413	.852	.986	.897	1.098	.386	.355
21	-3.982	-1.746	-1.432	-.768	-.661	-.636	-.593
22	-3.250	-1.229	-1.158	-.645	-.550	-.587	-.670
23	-2.000	-.555	-.627	-.498	-.525	-.463	-.467
24	-1.226	-.240	-.118	-.407	-.402	-.366	-.425
25	-.382	-2.623	-4.110	1.167	1.122	.998	.050
26	.977	.557	.156	-.418	*000.000	.140	.155
27	.834	.970	.923	.693	-.003	.113	.093
28	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
29	.021	.619	.773	.669	.654	.515	.337
30	.125	.995	1.040	1.176	1.196	1.066	.026
31	.343	1.005	.948	1.200	1.248	1.204	.569
32	.359	.861	.789	1.006	1.023	.841	.640
33	.246	.520	.556	.615	.610	.447	.038

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.214	-6.919	-8.716	.844	1.241	1.085	-.777
2	-3.926	-7.126	-8.547	-.020	.469	.411	-.958
3	-4.248	-7.307	-8.510	-.332	.086	.093	-.845
4	-.978	-.636	-.357	.152	.107	.058	-.018
5	-2.926	-4.491	-4.729	-.716	-.608	-.575	-.689
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	-1.110	-.663	-.429	-.587
8	*000.000	*000.000	*000.000	-2.358	-1.926	-1.421	-1.002
9	*000.000	*000.000	*000.000	-3.272	-2.871	-1.942	-.859
10	-1.788	-2.584	-2.662	-2.843	-1.993	-.971	-.481
11	-1.360	-1.603	*000.000	-1.466	-.919	-.497	-.412
12	-1.333	-1.080	-.879	-.508	-.481	-.552	-.504
13	-1.841	-.857	-.710	-.471	-.453	-.498	-.578
14	-2.425	-.858	-.687	-.497	-.436	-.405	-.536
15	-.896	-.713	.459	.604	.413	.404	.038
16	-1.261	-.162	.082	.280	.160	.098	-.117
17	-2.338	-1.198	-.799	-.428	-.602	-.446	-.486
18	-3.259	-1.679	-1.410	-.905	-1.030	-.871	-.633
19	-4.179	-1.966	-1.695	-1.112	-1.282	-.819	-.771
20	-3.665	-1.870	-1.623	-.864	-.855	-.681	-.749
21	-3.361	-1.723	-1.462	-.927	-.988	-.861	-.750
22	-2.630	-1.265	-1.191	-.710	-.780	-.565	-.713
23	-1.821	-.762	-.772	-.596	-.542	-.517	-.744
24	-.997	-.347	-.367	-.412	-.441	-.415	-.464
25	-.867	-3.402	-5.055	1.275	1.180	.995	-.168
26	.964	.432	.009	-.428	*000.000	.120	.076
27	.921	1.027	.862	1.032	.049	.159	.236
28	.453	.936	1.045	.881	1.046	.434	.405
29	.041	.633	.783	.680	.614	.439	.399
30	.127	1.068	1.088	1.175	1.241	1.027	.285
31	.355	1.051	.984	1.236	1.238	1.138	.508
32	.407	.923	.800	1.036	1.036	.826	.488
33	.251	.516	.571	.620	.579	.325	.002

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-4.284	-8.366	-10.387	.587	1.042	.862	-.962
2	-5.207	-8.929	-10.321	-.616	.101	.072	-1.088
3	-5.256	-8.625	-9.678	-.774	-.289	-.210	-.977
4	-5.142	-7.841	-8.672	-1.166	-.737	-.775	-.885
5	-3.604	-5.393	-5.499	-1.167	-.975	-.837	-.579
6	*000.000	*000.000	*000.000	.103	.097	.093	-.027
7	*000.000	*000.000	*000.000	-1.279	-.841	-.522	-.557
8	*000.000	*000.000	*000.000	-2.803	-2.319	-1.336	-.856
9	*000.000	*000.000	*000.000	-3.893	-3.458	-2.056	-.815
10	-2.276	-3.154	-3.243	-3.585	-2.506	-1.309	-.330
11	-1.621	-1.875	*000.000	-1.744	-1.075	-.577	-.302
12	.289	.860	.735	.980	.891	.628	.509
13	-2.273	-1.172	-.979	-.804	-.900	-.583	-.343
14	-.891	-.781	.445	.581	.338	.371	.091
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	-1.073	-.212	.007	.189	.054	.029	.019
17	-2.150	-1.381	-.921	-.744	-.948	-.417	-.373
18	-2.877	-2.086	-1.796	-1.369	-1.478	-.683	-.655
19	-3.240	-2.163	-1.931	-1.086	-1.278	-1.057	-.489
20	-3.130	-2.054	-1.715	-1.317	-.878	-.684	-.503
21	-3.062	-1.768	-1.426	-.897	-.812	-.580	-.608
22	-2.195	-1.376	-1.357	-.890	-.732	-.543	-.580
23	-1.871	-.811	-.698	-.550	-.567	-.542	-.496
24	-1.131	-.395	-.235	-.279	-.408	-.410	-.319
25	-1.555	-4.420	-6.067	1.227	1.210	.733	-.452
26	.732	.236	-.338	-.264	*000.000	.050	.118
27	.831	1.031	.822	1.178	.136	.209	.383
28	.335	.954	1.009	.817	.890	.477	.334
29	-.053	.638	.760	.640	.525	.350	.401
30	.092	1.112	.985	1.181	1.167	.855	.263
31	.328	1.114	.852	1.224	1.234	.924	.574
32	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
33	.199	.509	.474	.671	.527	.312	.222

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-4.359	-9.478	-10.661	.404	.921	-.209	-1.372
2	-5.365	-9.891	-10.981	-.813	-.062	-.304	-1.302
3	-5.216	-9.462	-10.037	-1.090	-.515	-.372	-.984
4	-4.649	-7.655	-7.939	-1.432	-.988	-.771	-.738
5	-3.719	-5.926	-5.848	-1.433	-1.175	-.988	-.628
6	*000.000	*000.000	*000.000	.103	.074	.040	-.154
7	*000.000	*000.000	*000.000	-1.650	-1.146	-.650	-.651
8	*000.000	*000.000	*000.000	-2.998	-2.451	-1.281	-.786
9	*000.000	*000.000	*000.000	-3.811	-3.264	-1.724	-.628
10	-1.943	-2.930	-3.006	-3.274	-2.403	-1.228	-.452
11	-1.485	-1.860	*000.000	-1.851	-1.227	-.578	-.325
12	-1.609	-1.270	-1.084	-1.148	-.873	-.437	-.320
13	-1.954	-1.181	-1.048	-.898	-.842	-.523	-.439
14	-1.880	-1.202	-.992	-.820	-.726	-.440	-.459
15	-.961	-.844	.455	.560	.359	.440	.010
16	-.954	-.266	.007	.149	.052	0.	-.167
17	-1.809	-1.418	-.910	-.799	-.995	-.479	-.463
18	-2.407	-2.071	-1.761	-1.619	-1.283	-.964	-.726
19	-2.440	-2.043	-2.000	-1.782	-1.215	-.846	-.653
20	-2.299	-1.962	-1.814	-1.244	-1.028	-.770	-.602
21	-2.019	-1.706	-1.603	-1.335	-.931	-.671	-.703
22	-1.855	-1.459	-1.405	-.976	-.798	-.677	-.734
23	-1.381	-.788	-.588	-.595	-.536	-.553	-.620
24	-.997	-.308	-.141	-.387	-.453	-.431	-.449
25	-1.971	-5.664	-7.014	1.264	1.391	-.120	-.751
26	.384	-.111	-.471	.121	*000.000	.150	.040
27	.473	.884	.854	1.294	.413	.296	.288
28	.166	.858	1.076	.827	.877	.469	.274
29	-.135	.527	.768	.654	.537	.348	.303
30	.177	1.132	.917	1.186	1.162	.800	.219
31	.221	1.071	.683	1.200	1.197	.987	.398
32	.257	.764	.695	.959	.885	.615	.402
33	.267	.390	.559	.700	.542	.355	.167

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.136	-4.591	-4.250	.115	.741	-.373	-1.386
2	-3.794	-4.284	-3.396	-.455	-.274	-.923	-1.318
3	-3.581	-3.371	-1.860	-1.226	-.681	-.895	-.978
4	-2.781	-1.560	-1.072	-1.475	-1.048	-.818	-.649
5	-1.801	-1.182	-1.124	-1.481	-1.282	-1.046	-.497
6	*000.000	*000.000	*000.000	.137	.119	.066	-.071
7	*000.000	*000.000	*000.000	-1.600	-1.098	-.531	-.599
8	*000.000	*000.000	*000.000	-2.770	-2.301	-1.004	-.594
9	*000.000	*000.000	*000.000	-3.625	-3.152	-1.486	-.492
10	-1.123	-1.133	-1.098	-3.121	-2.130	-.907	-.306
11	-1.026	-1.203	*000.000	-1.769	-1.158	-.522	-.337
12	-1.083	-1.248	-1.179	-.955	-.878	-.488	-.278
13	-1.020	-1.141	-.965	-.813	-.890	-.384	-.377
14	-.489	-.605	.454	.576	.368	.365	.069
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	-.381	-.096	.094	.132	.120	.050	-.052
17	-.846	-.884	-.774	-.712	-.729	-.338	-.334
18	-.996	-1.107	-1.061	-1.078	-1.016	-.836	-.619
19	-1.097	-1.360	-1.245	-1.723	-1.294	-.943	-.545
20	-1.017	-1.029	-1.083	-1.542	-1.012	-.707	-.672
21	-1.089	-.964	-1.092	-1.125	-.729	-.491	-.517
22	-.835	-.832	-.850	-.819	-.618	-.542	-.578
23	-.626	-.620	-.579	-.492	-.520	-.514	-.569
24	-.657	-.590	-.505	-.415	-.424	-.403	-.393
25	-1.255	-2.553	-2.878	1.207	1.317	.039	-.796
26	.242	.384	.271	.044	*000.000	.175	.235
27	.395	.915	1.006	1.222	.480	.313	.317
28	.199	.785	1.012	.824	.917	.403	.361
29	.038	.450	.709	.612	.534	.400	.392
30	.376	1.057	.887	1.169	1.177	.909	.279
31	.372	1.107	.851	1.281	1.332	1.017	.524
32	.264	.695	.710	.990	.880	.644	.444
33	.262	.308	.477	.642	.494	.369	.143

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.930	-3.432	-3.597	-.119	.572	-.875	-1.317
2	-3.208	-2.952	-2.549	-1.327	-.482	-1.130	-.984
3	-2.363	-1.674	-1.297	-1.426	-.876	-1.248	-.855
4	-1.793	-1.263	-.781	-1.545	-1.222	-1.134	-.595
5	-1.292	-1.001	-.892	-1.586	-1.328	-1.183	-.656
6	*000.000	*000.000	*000.000	.202	.162	.052	-.161
7	*000.000	*000.000	*000.000	-1.438	-1.022	-.607	-.495
8	*000.000	*000.000	*000.000	-2.661	-2.354	-1.043	-.448
9	*000.000	*000.000	*000.000	-3.036	-2.949	-1.462	-.490
10	-1.060	-1.045	-.918	-3.124	-2.142	-.796	-.373
11	-1.009	-1.015	*000.000	-1.649	-1.190	-.575	-.369
12	-.797	-.903	-.788	-.753	-.824	-.460	-.391
13	-.698	-.881	-.839	-.740	-.913	-.543	-.503
14	-.681	-.672	-.698	-.702	-.676	-.452	-.534
15	-.316	-.419	.478	.597	.377	.367	.093
16	-.197	.024	.124	.266	.127	.036	-.040
17	-.578	-.686	-.482	-.477	-.756	-.482	-.467
18	-.891	-1.157	-.965	-1.142	-.999	-.720	-.634
19	-.917	-1.017	-1.069	-1.102	-1.091	-.712	-.612
20	-.910	-1.000	-1.116	-1.220	-.973	-.763	-.812
21	-1.048	-.906	-.921	-1.136	-.893	-.755	-.724
22	-.759	-.842	-.898	-.964	-.870	-.741	-.793
23	-.681	-.698	-.688	-.506	-.498	-.537	-.554
24	-.569	-.623	-.537	-.314	-.317	-.380	-.304
25	-1.702	-2.081	-2.564	1.116	1.431	-.304	-1.059
26	-.206	.387	.441	.233	*000.000	.157	.217
27	.119	.769	1.032	1.327	.559	.416	.293
28	.209	.664	1.044	.857	.890	.441	.380
29	.131	.430	.655	.596	.488	.408	.394
30	.349	1.089	.796	1.133	1.180	.800	.230
31	.387	.973	.797	1.300	1.341	.846	.455
32	.234	.621	.693	.958	.838	.534	.405
33	.244	.239	.432	.547	.439	.331	.180

Table 24. - Continued.

(d) $C_{T,S} = 0.30$, $q_s = 18.88$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.933	.709	.342	.431	.988	.945	.913
2	.232	-.109	-.342	.675	1.232	1.190	1.018
3	-.059	-.455	-.556	.652	1.165	1.080	.909
4	.073	-.117	-.128	-.118	-.022	-.120	-.177
5	-.711	-1.216	-1.451	.268	.533	.472	.360
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.097	.406	.447	.313
8	.000,000	.000,000	.000,000	-.869	-.748	-.742	-.708
9	.000,000	.000,000	.000,000	-1.755	-1.728	-1.589	-1.469
10	-.930	-1.380	-1.821	-2.120	-1.862	-1.711	-1.506
11	-.899	-1.323	.000,000	-1.450	-1.449	-1.319	-1.154
12	-1.412	-1.028	-1.027	-1.040	-1.040	-.866	-.707
13	-.751	-.994	-.969	-.805	-.754	-.685	-.478
14	-.988	-1.083	-1.024	-.764	-.867	-.641	-.488
15	-.041	-.180	.062	.127	.032	.009	-.112
16	-.156	-.072	-.032	-.009	-.057	-.113	-.138
17	-.878	-1.067	-.854	-.377	-.384	-.456	-.469
18	-1.538	-1.636	-1.496	-.724	-.754	-.937	-.891
19	-2.166	-2.129	-2.038	-1.194	-.948	-.988	-.974
20	-2.398	-2.171	-1.982	-1.146	-.821	-1.135	-1.072
21	-2.490	-1.961	-1.733	-.917	-.558	-.814	-.868
22	-2.305	-1.403	-1.190	-.393	-.259	-.233	-.490
23	-1.566	-.326	-.358	-.261	-.236	-.254	-.344
24	.431	.704	.534	-.280	1.716	-.250	.688
25	.913	1.010	.647	-.115	.097	-.015	.036
26	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
27	-.007	.187	-.013	-.139	-.034	-.188	-.217
28	-.064	.069	.046	-.157	-.056	-.100	-.068
29	.062	.289	.276	.056	.077	.127	.186
30	.707	1.008	.934	.161	.163	.124	.264
31	.803	1.016	.957	.282	.235	.384	.464
32	.521	.782	.741	.319	.213	.543	.661
33	.240	.536	.515	.585	.228	.459	.315

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.380	-.059	-.494	.656	1.227	1.128	1.045
2	-.542	-1.318	-1.564	.600	1.297	1.142	.978
3	-.796	-1.654	-1.897	.429	1.054	.905	.750
4	-1.092	-2.016	-2.422	.229	.764	.578	.439
5	-1.367	-2.182	-2.416	-.090	.277	.129	.046
6	.000,000	.000,000	.000,000	-.055	.033	-.072	-.190
7	.000,000	.000,000	.000,000	-.429	-.175	-.256	-.032
8	.000,000	.000,000	.000,000	-1.411	-1.309	-1.314	-1.263
9	.000,000	.000,000	.000,000	-2.452	-2.623	-2.513	-2.231
10	-1.138	-1.648	-2.053	-2.382	-2.126	-2.091	-1.861
11	-1.174	-1.665	.000,000	-1.808	-1.902	-1.771	-1.536
12	-1.681	-1.195	-1.193	-1.202	-1.282	-1.156	-.882
13	-.960	-1.061	-.948	-.856	-.891	-.853	-.558
14	-.308	-.271	.088	.230	.280	.222	-.097
15	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
16	-1.283	-1.239	-.899	-.561	-.747	-.718	-.609
17	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
18	-1.984	-1.809	-1.533	-1.091	-1.055	-1.344	-1.136
19	-3.000	-2.444	-2.210	-1.602	-1.558	-1.466	-1.304
20	-3.306	-2.452	-1.869	-1.507	-1.360	-1.730	-1.430
21	-3.236	-2.129	-1.571	-1.120	-1.068	-1.242	-1.129
22	-3.008	-1.676	-1.210	-.456	-.482	-.670	-.946
23	-1.782	-.482	-.323	-.266	-.233	-.329	-.594
24	-1.306	-.225	-.091	.257	-.220	-.381	-.362
25	.917	.837	.153	.270	.436	.280	.307
26	.757	.988	.680	-.045	.000,000	-.104	.603
27	.281	.556	.416	-.035	.053	-.124	-.110
28	.061	.287	.302	.159	.077	.060	.337
29	.049	.371	.336	.414	.379	.361	.360
30	.519	.985	.870	.501	.502	.533	.607
31	.601	.985	.823	.714	.584	.551	.895
32	.460	.784	.670	.673	.759	.728	.830
33	.245	.537	.501	.558	.563	.554	.283

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.343	-1.495	-2.470	.650	1.214	1.077	.991
2	-1.277	-2.474	-3.169	.296	.949	.736	.606
3	-1.655	-3.055	-3.631	.292	.736	.569	.392
4	-.261	-.236	-.174	-.157	-.005	-.047	-.048
5	-1.879	-2.984	-3.275	-.542	-.201	-.378	-.434
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	-.874	-.650	-.684	-.745
8	.000,000	.000,000	.000,000	-2.121	-2.022	-2.012	-1.996
9	.000,000	.000,000	.000,000	-3.219	-3.463	-3.306	-3.041
10	-1.414	-2.031	-2.481	-2.902	-2.618	-2.509	-2.264
11	-1.273	-1.749	.000,000	-1.918	-2.084	-1.914	-1.629
12	-1.635	-1.143	-1.102	-1.162	-1.310	-1.175	-.840
13	-1.235	-1.217	-1.036	-1.030	-1.160	-1.026	-.688
14	-1.776	-1.289	-1.065	-.990	-1.173	-1.043	-.805
15	-.601	-.385	.146	.333	.341	.285	-.143
16	-.728	-.204	-.080	.062	-.094	-.185	-.218
17	-1.635	-1.283	-.851	-.681	-1.058	-.803	-.661
18	-2.668	-2.112	-1.620	-1.450	-1.670	-1.750	-1.144
19	-3.706	-2.634	-2.017	-2.058	-2.125	-1.808	-1.320
20	-4.364	-2.806	-1.887	-2.199	-1.964	-2.016	-1.399
21	-4.068	-2.379	-1.448	-1.743	-1.685	-1.667	-1.204
22	-3.399	-1.701	-.976	-1.002	-.970	-1.145	-1.044
23	-1.892	-.570	-.276	-.269	-.224	-.438	-.711
24	-1.639	-.227	-.146	-.225	-.206	-.294	-.474
25	.740	.326	-.578	.643	.771	.710	.786
26	.921	1.046	.585	-.232	.000,000	.045	.573
27	.475	.822	.638	.099	.128	.055	.019
28	.196	.509	.562	.645	.276	.398	.693
29	.044	.473	.509	.617	.694	.600	.566
30	.361	.921	.866	.923	.875	.866	.318
31	.507	.998	.834	1.018	1.001	.988	1.027
32	.403	.783	.636	.894	.938	.848	.893
33	.185	.551	.494	.640	.642	.533	.181

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.247	-2.980	-4.441	.637	1.191	1.033	.601
2	-2.241	-4.301	-5.474	-.233	.507	.301	.093
3	-2.534	-4.507	-5.410	-.394	.160	.062	-.161
4	-2.491	-4.157	-4.985	-.765	-.267	-.421	-.547
5	-2.336	-3.691	-4.127	-.953	-.745	-.829	-.899
6	.000,000	.000,000	.000,000	-.109	-.034	-.116	-.049
7	.000,000	.000,000	.000,000	-1.548	-1.275	-1.331	-1.478
8	.000,000	.000,000	.000,000	-2.811	-2.741	-2.696	-2.768
9	.000,000	.000,000	.000,000	-4.004	-4.196	-3.905	-3.635
10	-1.730	-2.614	-3.265	-3.632	-3.322	-3.140	-2.754
11	-1.489	-2.066	.000,000	-2.264	-2.500	-2.199	-1.825
12	-1.976	-1.350	-1.294	-1.413	-1.584	-1.256	-.976
13	-1.384	-1.191	-1.017	-1.001	-1.188	-1.003	-.839
14	-.894	-.534	.267	.494	.376	.302	-.317
15	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
16	-1.264	-.335	-.140	.051	-.164	-.259	-.276
17	-2.123	-1.391	-1.014	-.859	-1.266	-1.028	-.764
18	-3.047	-2.120	-1.621	-1.561	-1.944	-1.902	-1.123
19	-4.273	-2.740	-2.010	-2.166	-2.391	-1.911	-1.361
20	-4.606	-2.868	-1.788	-2.219	-2.194	-1.963	-1.504
21	-3.963	-2.411	-1.453	-1.630	-1.702	-1.455	-1.184
22	-3.556	-1.831	-1.075	-1.230	-1.202	-1.245	-1.244
23	-1.973	-.565	-.298	-.308	-.284	-.581	-.838
24	-2.119	-.196	-.124	-.138	-.173	-.263	-.576
25	.237	-.690	-1.927	.882	.972	.926	.837
26	.924	.885	.426	-.332	.000,000	-.214	.425
27	.656	.946	.848	.699	.019	.113	.285
28	.331	.716	.778	.850	1.049	.908	.731
29	.039	.564	.658	.705	.729	.651	.589
30	.215	.971	.936	1.155	1.186	1.135	.387
31	.171	.587	.482	.721	.676	.585	.156
32	.330	.810	.740	1.047	1.013	.913	.898
33	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000

Table 24.- Concluded.

(d) $C_{T,s} = 0.30$, $q_s = 18.88$

$\alpha = 25°$

TUBE NO	WING STATIONS							TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7		1	2	3	4	5	6	7
1	-2.300	-4.922	-6.639	.393	1.018	.869	.016	1	-3.175	-6.511	-7.992	.262	.767	.746	-.347
2	-3.427	-6.141	-7.520	-.736	.113	-.123	-.501	2	-4.417	-7.960	-9.582	-1.053	-.288	-.302	-1.075
3	-3.530	-6.114	-7.125	-.864	-.454	-.539	-1.142	3	-4.399	-7.451	-8.628	-1.414	-.727	-.615	-1.115
4	-3.450	-5.661	-6.594	-1.470	-1.018	-1.324	-1.612	4	-3.943	-6.372	-6.956	-1.560	-1.095	-1.032	-1.079
5	-3.030	-4.733	-5.279	-1.749	-1.470	-1.611	-1.712	5	-3.237	-5.187	-5.492	-1.748	-1.522	-1.335	-1.200
6	.000.000	.000.000	.000.000	-.108	.069	-.090	-.169	6	.000.000	.000.000	.000.000	-.021	.019	.013	-.035
7	.000.000	.000.000	.000.000	-1.838	-1.411	-1.539	-1.764	7	.000.000	.000.000	.000.000	-1.638	-1.332	-1.118	-1.092
8	.000.000	.000.000	.000.000	-3.129	-2.994	-2.822	-2.842	8	.000.000	.000.000	.000.000	-3.018	-2.941	-2.464	-2.005
9	.000.000	.000.000	.000.000	-3.923	-4.128	-3.800	-3.403	9	.000.000	.000.000	.000.000	-3.853	-4.011	-3.155	-2.015
10	-1.736	-2.601	-3.321	-3.592	-3.300	-3.033	-2.482	10	-1.996	-2.989	-3.624	-3.623	-2.965	-2.209	-1.202
11	-1.505	-2.087	.000.000	-2.283	-2.458	-2.044	-1.488	11	-1.461	-2.091	.000.000	-1.726	-1.113	-.812	-1.145
12	-2.069	-1.399	-1.348	-1.413	-1.282	-1.091	-.835	12	-2.107	-1.534	-1.376	-1.060	-.941	-.972	-.845
13	-2.022	-1.338	-1.148	-1.056	-.910	-.982	-.867	13	-2.726	-1.527	-1.205	-.875	-.900	-.869	-.809
14	-3.170	-1.395	-1.137	-1.101	-1.048	-1.129	-.762	14	-1.077	-.684	.329	.471	.412	.356	-.152
15	-1.137	-.589	.446	.562	.478	.392	-.134	15	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
16	-1.482	-.287	-.044	.238	.108	-.087	-.070	16	-1.499	-.344	-.007	.208	.007	-.059	-.191
17	-2.534	-1.437	-.918	-.866	-1.032	-.970	-.562	17	-2.735	-1.464	-.964	-.748	-.875	-.571	-.675
18	-3.671	-2.113	-1.615	-1.613	-1.668	-1.428	-.923	18	-3.967	-2.139	-1.693	-1.253	-1.254	-1.367	-1.127
19	-4.620	-2.705	-1.979	-1.548	-1.297	-1.486	-.912	19	-4.411	-2.703	-2.076	-1.169	-1.226	-1.213	-1.051
20	-4.451	-2.779	-1.866	-1.990	-1.382	-1.290	-.925	20	-4.026	-2.691	-1.868	-1.371	-1.269	-.968	-1.214
21	-3.960	-2.424	-1.482	-1.866	-1.697	-1.216	-.912	21	-3.401	-2.285	-1.582	-.906	-.987	-.712	-.821
22	-3.532	-1.945	-1.247	-1.434	-1.144	-1.211	-.822	22	-3.286	-1.708	-1.331	-.659	-.756	-.798	-.837
23	-1.998	-.634	-.421	-.405	-.345	-.755	-.809	23	-2.240	-.717	-.540	-.661	-.593	-.543	-.558
24	-1.934	-.339	-.181	-.133	-.316	-.492	-.570	24	-1.662	-.288	-.141	-.476	-.472	-.570	-.610
25	-.359	-2.201	-3.763	1.348	1.491	1.331	.554	25	-1.094	-3.365	-4.609	1.274	1.333	1.234	.445
26	.903	.688	.273	.090	.000.000	-.559	.511	26	.755	.311	.065	.166	.000.000	-.354	.472
27	.852	1.022	.973	1.057	.390	.470	.726	27	.788	.833	.851	1.218	.863	.646	.676
28	.478	.833	.938	.980	1.073	.878	.663	28	.455	.739	.919	.894	.933	.813	.555
29	.131	.702	.793	.792	.846	.708	.602	29	.101	.567	.770	.765	.702	.645	.544
30	.210	1.088	1.086	1.362	1.325	1.270	.262	30	.032	.943	1.027	1.298	1.225	1.186	.122
31	.403	1.110	1.006	1.359	1.390	1.247	.919	31	.312	1.014	.982	1.330	1.290	1.233	.814
32	.394	.872	.820	1.044	1.052	.912	.862	32	.316	.775	.762	1.020	.963	.862	.805
33	.270	.632	.660	.758	.752	.597	.061	33	.330	.536	.652	.760	.694	.518	.080

$\alpha = 30°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-3.175	-6.511	-7.992	.262	.767	.746	-.347
2	-4.417	-7.960	-9.582	-1.053	-.288	-.302	-1.075
3	-4.399	-7.451	-8.628	-1.414	-.727	-.615	-1.115
4	-3.943	-6.372	-6.956	-1.560	-1.095	-1.032	-1.079
5	-3.237	-5.187	-5.492	-1.748	-1.522	-1.335	-1.200
6	.000.000	.000.000	.000.000	-.021	.019	.013	-.035
7	.000.000	.000.000	.000.000	-1.638	-1.332	-1.118	-1.092
8	.000.000	.000.000	.000.000	-3.018	-2.941	-2.464	-2.005
9	.000.000	.000.000	.000.000	-3.853	-4.011	-3.155	-2.015
10	-1.996	-2.989	-3.624	-3.623	-2.965	-2.209	-1.202
11	-1.461	-2.091	.000.000	-1.726	-1.113	-.812	-1.145
12	-2.107	-1.534	-1.376	-1.060	-.941	-.972	-.845
13	-2.726	-1.527	-1.205	-.875	-.900	-.869	-.809
14	-1.077	-.684	.329	.471	.412	.356	-.152
15	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
16	-1.499	-.344	-.007	.208	.007	-.059	-.191
17	-2.735	-1.464	-.964	-.748	-.875	-.571	-.675
18	-3.967	-2.139	-1.693	-1.253	-1.254	-1.367	-1.127
19	-4.411	-2.703	-2.076	-1.169	-1.226	-1.213	-1.051
20	-4.026	-2.691	-1.868	-1.371	-1.269	-.968	-1.214
21	-3.401	-2.285	-1.582	-.906	-.987	-.712	-.821
22	-3.286	-1.708	-1.331	-.659	-.756	-.798	-.837
23	-2.240	-.717	-.540	-.661	-.593	-.543	-.558
24	-1.662	-.288	-.141	-.476	-.472	-.570	-.610
25	-1.094	-3.365	-4.609	1.274	1.333	1.234	.445
26	.755	.311	.065	.166	.000.000	-.354	.472
27	.788	.833	.851	1.218	.863	.646	.676
28	.455	.739	.919	.894	.933	.813	.555
29	.101	.567	.770	.765	.702	.645	.544
30	.032	.943	1.027	1.298	1.225	1.186	.122
31	.312	1.014	.982	1.330	1.290	1.233	.814
32	.316	.775	.762	1.020	.963	.862	.805
33	.330	.536	.652	.760	.694	.518	.080

$\alpha = 35°$

TUBE NO	WING STATIONS							TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7		1	2	3	4	5	6	7
1	-4.459	-8.763	-10.606	-.224	.374	.481	-.820	1	-4.051	-5.466	-4.823	-.396	.198	.214	-1.102
2	-5.377	-9.281	-10.731	-1.433	-.732	-.632	-1.287	2	-4.582	-5.358	-4.411	-1.678	-1.031	-1.013	-1.562
3	-5.203	-8.836	-10.127	-1.912	-1.263	-1.070	-1.398	3	-4.465	-4.448	-2.426	-1.898	-1.459	-1.250	-1.461
4	-1.523	-.936	-.511	.089	.074	.107	-.073	4	-3.806	-2.708	-1.333	-2.259	-1.817	-1.658	-1.290
5	-3.435	-5.543	-5.844	-1.889	-1.602	-1.341	-.926	5	-2.561	-1.557	-1.336	-1.964	-1.829	-1.620	-.894
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	6	.000.000	.000.000	.000.000	.093	.099	.151	-.024
7	.000.000	.000.000	.000.000	-2.080	-1.678	-1.281	-1.177	7	.000.000	.000.000	.000.000	-2.172	-1.906	-1.433	-1.061
8	.000.000	.000.000	.000.000	-3.166	-2.974	-2.150	-1.436	8	.000.000	.000.000	.000.000	-3.255	-3.294	-2.439	-1.211
9	.000.000	.000.000	.000.000	-4.921	-4.920	-3.440	-1.708	9	.000.000	.000.000	.000.000	-3.814	-4.230	-3.046	-1.196
10	-2.120	-3.170	-3.921	-3.762	-3.045	-1.886	-.789	10	-1.298	-1.422	-1.396	-3.252	-2.930	-1.745	-.757
11	-1.489	-2.116	.000.000	-2.040	-1.391	-.922	-.565	11	-1.071	-1.425	.000.000	-1.794	-1.505	-.839	-.439
12	-2.329	-1.576	-1.485	-1.238	-.921	-.747	-.623	12	-1.531	-1.598	-1.534	-1.299	-.941	-.710	-.697
13	-2.921	-1.527	-1.057	-.725	-1.058	-.541	-.566	13	-1.005	-1.305	-1.248	-1.008	-1.076	-.725	-.743
14	-3.381	-1.490	-1.277	-.967	-1.046	-.624	-.721	14	-.270	-.677	.419	.426	.400	.377	.092
15	-1.114	-.620	.563	.672	.474	.458	-.020	15	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
16	-1.621	-.314	-.036	.209	.024	.088	-.046	16	-.397	-.196	-.013	.087	-.043	.007	-.080
17	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	17	-1.042	-1.373	-1.102	-1.028	-1.100	-.676	-.677
18	-3.630	-2.260	-1.849	-1.371	-1.180	-.967	-.910	18	-1.380	-1.722	-1.583	-1.975	-1.649	-1.040	-.974
19	-3.859	-2.660	-2.170	-1.693	-1.403	-1.233	-.732	19	-1.246	-1.601	-1.520	-1.932	-1.635	-1.152	-1.084
20	-3.097	-2.733	-2.151	-1.529	-1.304	-.978	-1.060	20	-1.122	-1.325	-1.208	-1.784	-1.135	-.925	-.881
21	-3.064	-2.479	-1.896	-1.031	-1.151	-.984	-.874	21	-1.350	-1.293	-1.096	-1.471	-1.112	-.826	-.940
22	-2.749	-1.568	-1.444	-.893	-.929	-.676	-.727	22	-1.097	-1.186	-1.015	-1.420	-1.119	-.883	-.896
23	-2.047	-.557	-.537	-.475	-.618	-.651	-.615	23	-.984	-1.020	-.820	-.826	-1.029	-.918	-.884
24	-1.740	-.398	-.174	-.326	-.583	-.643	-.678	24	-.759	-.783	-.678	-.570	-.545	-.656	-.606
25	-2.056	-4.767	-5.997	1.309	1.355	1.253	.250	25	-1.875	-3.111	-3.315	1.195	1.369	1.222	.087
26	.525	-.067	-.307	.180	.000.000	-.082	.485	26	.496	.232	.249	.323	.000.000	0.	.480
27	.918	.918	.905	1.455	1.268	.861	.736	27	.720	.817	.939	1.271	1.257	.847	.640
28	.479	.880	1.042	1.020	.984	.827	.647	28	.509	.893	1.087	.944	1.004	.783	.713
29	.033	.660	.791	.758	.729	.672	.561	29	.155	.665	.840	.733	.712	.592	.573
30	.072	1.076	1.000	1.289	1.220	1.185	.312	30	.349	1.026	1.061	1.263	1.275	1.178	.226
31	.335	1.160	.994	1.406	1.384	1.265	.905	31	.314	.482	.558	.667	.652	.464	.218
32	.341	.899	.849	1.098	1.044	.910	.840	32	.381	.835	.822	1.050	1.042	.857	.819
33	.295	.553	.668	.799	.665	.539	.110	33	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000

$\alpha = 40°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-4.051	-5.466	-4.823	-.396	.198	.214	-1.102
2	-4.582	-5.358	-4.411	-1.678	-1.031	-1.013	-1.562
3	-4.465	-4.448	-2.426	-1.898	-1.459	-1.250	-1.461
4	-3.806	-2.708	-1.333	-2.259	-1.817	-1.658	-1.290
5	-2.561	-1.557	-1.336	-1.964	-1.829	-1.620	-.894
6	.000.000	.000.000	.000.000	.093	.099	.151	-.024
7	.000.000	.000.000	.000.000	-2.172	-1.906	-1.433	-1.061
8	.000.000	.000.000	.000.000	-3.255	-3.294	-2.439	-1.211
9	.000.000	.000.000	.000.000	-3.814	-4.230	-3.046	-1.196
10	-1.298	-1.422	-1.396	-3.252	-2.930	-1.745	-.757
11	-1.071	-1.425	.000.000	-1.794	-1.505	-.839	-.439
12	-1.531	-1.598	-1.534	-1.299	-.941	-.710	-.697
13	-1.005	-1.305	-1.248	-1.008	-1.076	-.725	-.743
14	-.270	-.677	.419	.426	.400	.377	.092
15	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
16	-.397	-.196	-.013	.087	-.043	.007	-.080
17	-1.042	-1.373	-1.102	-1.028	-1.100	-.676	-.677
18	-1.380	-1.722	-1.583	-1.975	-1.649	-1.040	-.974
19	-1.246	-1.601	-1.520	-1.932	-1.635	-1.152	-1.084
20	-1.122	-1.325	-1.208	-1.784	-1.135	-.925	-.881
21	-1.350	-1.293	-1.096	-1.471	-1.112	-.826	-.940
22	-1.097	-1.186	-1.015	-1.420	-1.119	-.883	-.896
23	-.984	-1.020	-.820	-.826	-1.029	-.918	-.884
24	-.759	-.783	-.678	-.570	-.545	-.656	-.606
25	-1.875	-3.111	-3.315	1.195	1.369	1.222	.087
26	.496	.232	.249	.323	.000.000	0.	.480
27	.720	.817	.939	1.271	1.257	.847	.640
28	.509	.893	1.087	.944	1.004	.783	.713
29	.155	.665	.840	.733	.712	.592	.573
30	.349	1.026	1.061	1.263	1.275	1.178	.226
31	.314	.482	.558	.667	.652	.464	.218
32	.381	.835	.822	1.050	1.042	.857	.819
33	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000

Table 25.- Pressure coefficients for wing with propeller rotation up at tip, inboard slat, $\delta_f = 60^\circ$.

(a) $C_{T,S} = 0.90$, $q_s = 20.21$

$\alpha = 5^\circ$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.859	.590	.316	-.728	.227	.412	.332
2	.222	-.078	-.255	-.074	.910	.998	.458
3	-.051	-.363	-.418	.202	1.063	1.076	.513
4	.142	-.047	-.119	-.176	-.092	.025	.041
5	-.513	-.926	-.526	.879	1.048	.964	.192
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	.824	.823	.747	.351
8	*000.000	*000.000	*000.000	.564	.268	.123	-.119
9	*000.000	*000.000	*000.000	-.166	-.487	-.568	-.553
10	.374	.865	.635	.157	.120	.058	0.
11	-.375	-.861	*000.000	-.557	-.667	-.533	-.405
12	-.878	-.629	-.687	-.474	-.479	-.373	-.280
13	-.361	-.612	-.658	-.374	-.361	-.294	-.190
14	-.464	-.694	-.725	-.450	-.330	-.232	-.189
15	-.119	.422	-.079	.008	.011	.017	-.066
16	-1.234	-1.752	-1.505	-.680	-.362	-.256	-.190
17	-1.762	-2.618	-2.182	-1.234	-.713	-.480	-.439
18	-1.964	-2.816	-2.456	-1.305	-.620	-.417	-.427
19	-2.023	-2.662	-2.291	-1.243	-.558	-.444	-.446
20	-1.695	-1.942	-1.457	-.510	-.165	-.101	-.127
21	-1.683	-1.360	-.617	-.300	-.079	-.089	-.120
22	-1.401	-.623	-.205	-.250	-.130	-.090	-.150
23	-.893	-.361	-.214	-.183	-.085	-.108	-.194
24	-.335	-.223	-.139	-.160	-.168	-.033	-.115
25	1.078	1.085	.823	-1.084	-.381	-.214	-.054
26	.679	.925	.880	-.661	*000.000	-.423	.253
27	.113	.464	.552	-.252	-.128	.068	.041
28	.069	.277	.403	-.184	-.032	.004	.063
29	.219	.531	.483	.124	-.086	.047	.064
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	.858	1.079	.909	-.016	.018	.156	-.019
32	.835	1.016	.895	.204	.050	-.125	.047
33	.620	.787	.744	.433	.095	-.072	-.096

$\alpha = 10^\circ$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.765	.509	.039	-.585	.478	.535	.196
2	.016	-.333	-.489	.051	.989	1.083	.256
3	-.194	-.701	-.733	.237	1.159	1.171	.440
4	-.559	-.994	-.905	.569	1.210	1.056	.401
5	-.676	-1.151	-.680	.792	1.008	.817	.122
6	*000.000	*000.000	*000.000	*000.000	.286	-.102	.025
7	*000.000	*000.000	*000.000	.738	.806	.666	.242
8	*000.000	*000.000	*000.000	.305	.160	-.021	-.213
9	*000.000	*000.000	*000.000	-.309	-.615	-.803	-.727
10	-.462	-.944	-1.374	-.539	-.653	-.661	-.542
11	-.426	-.909	*000.000	-.663	-.701	-.644	-.440
12	-.955	-.611	-.763	-.566	-.534	-.430	-.241
13	-.455	-.629	-.694	-.474	-.401	-.307	-.204
14	-.218	.365	-.117	.087	.040	.005	.023
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	-1.387	-1.764	-1.579	-.807	-.680	-.413	-.257
17	-2.022	-2.587	-2.230	-1.287	-.868	-.499	-.438
18	-2.123	-2.641	-2.416	-1.469	-.943	-.681	-.561
19	-2.160	-2.467	-2.153	-1.331	-.795	-.551	-.405
20	-1.734	-1.202	-.651	-.361	-.142	-.085	-.127
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	-1.518	-.650	-.260	-.295	-.119	-.108	-.099
23	-.854	-.311	-.201	-.310	-.137	-.128	-.125
24	-.403	-.199	-.173	-.222	-.111	-.111	-.089
25	1.074	1.091	.701	-.943	-.232	-.087	-.066
26	.739	1.005	.901	-.763	*000.000	-.246	.173
27	.186	.591	.661	-.296	-.090	.029	.062
28	.076	.419	.470	-.227	-.033	.036	.031
29	.172	.579	.527	.120	-.095	.075	.070
30	.337	.865	.638	.223	.052	.197	-.023
31	.784	1.075	.912	.008	.140	.115	.034
32	.821	1.017	.936	.310	.207	.081	.048
33	.602	.788	.792	.501	.305	-.038	.181

$\alpha = 15^\circ$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.603	.039	-.481	-.348	.505	.649	.083
2	-.222	-.825	-1.183	.285	1.033	1.115	.205
3	-.393	-1.150	-1.309	.457	1.153	1.144	.101
4	-.733	-1.342	-1.240	.724	1.161	1.071	.117
5	-.783	-1.387	-.848	.759	.935	.770	-.011
6	*000.000	*000.000	*000.000	-.243	-.095	.041	-.022
7	*000.000	*000.000	*000.000	.718	.751	.667	.203
8	*000.000	*000.000	*000.000	.300	.028	-.110	-.260
9	*000.000	*000.000	*000.000	-.430	-.872	-.888	-.798
10	-.541	-1.087	-1.619	-.610	-.803	-.772	-.618
11	-.455	-.981	*000.000	-.651	-.837	-.639	-.396
12	-.973	-.698	-.734	-.586	-.628	-.420	-.283
13	-.517	-.708	-.703	-.521	-.491	-.163	-.163
14	-.649	-.718	-.735	-.442	-.460	-.303	-.110
15	-.341	.260	-.091	.046	-.047	.094	-.057
16	-1.499	-1.699	-1.530	-.775	-.758	-.470	-.294
17	-2.150	-2.525	-2.173	-1.317	-1.019	-.720	-.702
18	-2.293	-2.503	-2.241	-1.315	-1.257	-1.044	-.773
19	-2.471	-2.678	-2.212	-1.402	-.966	-.746	-.513
20	-2.260	-1.766	-1.630	-.591	-.354	-.175	-.217
21	-2.046	-1.242	-.834	-.312	-.171	-.130	-.276
22	-1.694	-.454	-.323	-.332	-.192	-.085	-.108
23	-.667	-.306	-.241	-.249	-.143	-.110	-.139
24	-.486	-.355	-.202	-.195	-.163	-.154	-.165
25	1.123	.962	.408	-.800	-.207	-.137	-.035
26	.876	1.025	.874	-.645	*000.000	-.270	.141
27	.334	.664	.766	-.187	-.042	.059	-.015
28	.125	.416	.554	-.196	-.011	.075	.034
29	.155	.586	.560	.170	.007	.070	.130
30	.286	.816	.684	.312	.123	.244	.062
31	.737	1.048	.975	.260	.231	.218	.119
32	.795	.961	.948	.417	.180	.240	.186
33	.572	.721	.766	.815	.388	.220	.266

$\alpha = 20^\circ$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.382	-.343	-1.136	-.201	.710	.737	.186
2	-.454	-1.299	-1.819	.505	1.168	1.225	.226
3	-.695	-1.455	-1.643	.521	1.165	1.150	.244
4	-.948	-1.638	-1.679	.848	1.100	.997	.221
5	-.996	-1.691	-1.136	.893	.882	.738	-.024
6	*000.000	*000.000	*000.000	-.109	-.116	0.	.044
7	*000.000	*000.000	*000.000	.700	.688	.574	.160
8	*000.000	*000.000	*000.000	.240	-.115	-.231	-.296
9	*000.000	*000.000	*000.000	-.530	-1.020	-1.018	-.853
10	-.675	-1.231	-1.909	-.695	-.917	-.941	-.630
11	-.627	-1.144	*000.000	-.774	-.932	-.768	-.477
12	-1.068	-.776	-.801	-.591	-.656	-.488	-.305
13	-.681	-.752	-.771	-.481	-.549	-.448	-.232
14	-.538	.159	-.146	.093	-.062	.028	-.037
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	-1.881	-1.790	-1.762	-.897	-.828	-.681	-.365
17	-2.635	-2.609	-2.322	-1.384	-1.527	-1.160	-.784
18	-2.950	-2.727	-2.511	-1.469	-1.538	-1.137	-.874
19	-3.110	-2.705	-2.597	-1.457	-1.532	-1.350	-.794
20	-2.661	-1.939	-1.699	-.614	-.298	-.302	-.390
21	-2.465	-1.286	-1.140	-.351	-.272	-.239	-.272
22	-1.772	-.455	-.463	-.263	-.186	-.303	-.242
23	-.817	-.384	-.290	-.214	-.158	-.280	-.232
24	-.725	-.376	-.263	-.174	-.146	-.196	-.191
25	1.074	.767	-.041	-.521	-.040	-.039	-.089
26	.979	1.041	.845	-.505	*000.000	-.077	.128
27	.373	.741	.855	-.092	.033	.031	-.038
28	.143	.449	.610	-.119	-.029	.010	.018
29	.117	.558	.555	.279	.069	.118	.209
30	.219	.800	.699	.377	.210	.210	.111
31	.624	1.008	.969	.334	.191	.107	.090
32	.683	.963	.946	.910	.355	.173	.125
33	.557	.705	.737	1.041	.539	.063	.220

$\alpha = 25^\circ$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.137	-.829	-1.805	-.058	.835	.882	.174
2	-.793	-1.774	-2.465	.537	1.191	1.151	.057
3	-1.006	-1.987	-2.370	.709	1.162	1.159	.058
4	-1.197	-2.050	-2.218	.824	1.078	.908	.005
5	-1.091	-1.911	-1.311	.810	.747	.561	-.195
6	*000.000	*000.000	*000.000	-.121	.022	-.014	-.046
7	*000.000	*000.000	*000.000	.693	.640	.479	.115
8	*000.000	*000.000	*000.000	.208	-.211	-.405	-.434
9	*000.000	*000.000	*000.000	-.661	-1.171	-1.212	-.898
10	-.765	-1.407	-2.117	-.831	-1.029	-.988	-.705
11	-.655	-1.154	*000.000	-.835	-.951	-.811	-.516
12	-1.091	-.825	-.821	-.638	-.693	-.536	-.256
13	-.901	-.931	-.938	-.599	-.633	-.518	-.247
14	-1.081	-.874	-.834	-.507	-.628	-.456	-.265
15	-.727	.119	-.181	.129	.037	.078	-.069
16	-2.204	-2.089	-1.911	-1.147	-1.105	-.884	-.539
17	-3.013	-2.838	-2.586	-1.553	-1.464	-1.113	-.869
18	-3.688	-3.629	-3.345	-1.967	-1.937	-1.977	-1.201
19	-3.651	-3.343	-3.335	-1.803	-1.714	-1.794	-1.107
20	-3.089	-2.116	-1.987	-.919	-.663	-.816	-.898
21	-2.535	-1.914	-1.747	-.383	-.373	-.441	-.590
22	-1.722	-.813	-1.070	-.312	-.258	-.296	-.338
23	-1.112	-.658	-.170	-.228	-.203	-.251	-.329
24	-.851	-.521	-.143	-.170	-.138	-.217	-.179
25	.987	.559	-.368	-.444	.095	.030	-.104
26	.994	1.053	.766	-.514	*000.000	-.195	.146
27	.433	.820	.887	-.087	-.074	.023	-.027
28	.185	.572	.709	-.094	-.040	-.052	-.034
29	.084	.592	.627	.403	.079	.088	.111
30	.121	.805	.727	.487	.419	.381	.098
31	.518	.979	.959	.622	.271	.366	.212
32	.586	.949	.963	1.057	.774	.279	.118
33	.454	.661	.733	.955	.832	.191	.169

$\alpha = 30^\circ$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.151	-1.345	-2.607	.272	.911	1.025	-.241
2	-1.061	-2.114	-2.990	.590	1.132	1.115	-.072
3	-1.242	-2.355	-2.909	.654	1.132	1.113	-.077
4	-1.378	-2.323	-2.602	.813	.977	.850	-.235
5	-1.342	-2.212	-1.596	.799	.692	.493	-.277
6	*000.000	*000.000	*000.000	-.194	-.145	-.016	-.073
7	*000.000	*000.000	*000.000	.614	.580	.568	-.062
8	*000.000	*000.000	*000.000	.079	-.367	-.413	-.513
9	*000.000	*000.000	*000.000	-.761	-1.351	-1.242	-.944
10	-.844	-1.517	-2.369	-.921	-1.116	-1.038	-.758
11	-.769	-1.260	*000.000	-.926	-1.048	-.841	-.524
12	-1.130	-.894	-.900	-.698	-.790	-.490	-.340
13	-1.070	-.986	-.933	-.622	-.670	-.445	-.264
14	-1.330	-1.069	-.981	-.570	-.709	-.474	-.304
15	-.981	.063	-.315	.031	-.030	.033	-.096
16	-2.566	-2.473	-2.083	-1.389	-1.457	-1.080	-.610
17	-3.650	-3.676	-2.897	-1.998	-1.920	-1.501	-1.016
18	-4.116	-3.839	-2.901	-1.937	-1.671	-1.908	-1.403
19	-3.812	-3.922	-2.995	-2.002	-1.832	-2.222	-1.281
20	-3.497	-3.300	-2.204	-1.336	-1.064	-1.448	-1.122
21	-2.466	-2.363	-1.566	-.533	-.421	-.606	-.703
22	-1.805	-1.696	-1.047	-.307	-.246	-.419	-.603
23	-1.109	-.631	-.223	-.262	-.247	-.266	-.405
24	-.968	-.686	-.027	-.227	-.180	-.201	-.235
25	.981	.357	-.985	-.220	.144	.095	-.187
26	1.016	1.066	.741	-.521	*000.000	-.140	.095
27	.471	.891	.877	-.134	-.032	-.104	-.084
28	.178	.572	.672	.100	-.047	-.141	-.090
29	.055	.573	.636	.586	.222	.218	.170
30	.046	.787	.740	.628	.573	.526	.160
31	.445	.990	.969	.813	.632	.612	.157
32	.550	.906	.904	.980	.932	.613	.225
33	.422	.712	.799	.856	.956	.563	.493

Table 25. - Continued.

(a) $C_{T,s} = 0.90$, $q_s = 20.21$

$\alpha = 35°$

TUBE NO	1	2	3	4	5	6	7
	WING STATIONS						
1	-.395	-1.601	-3.060	.408	1.021	.960	-.295
2	-1.333	-2.563	-3.668	.704	1.174	1.097	-.194
3	-1.549	-2.700	-3.438	.764	1.129	1.060	-.246
4	-1.713	-2.696	-3.070	.837	.991	.770	-.382
5	-1.496	-2.384	-1.688	.730	.580	.415	-.374
6	.000,000	.000,000	.000,000	-.294	-.127	-.208	-.112
7	.000,000	.000,000	.000,000	.543	.499	.474	-.048
8	.000,000	.000,000	.000,000	-.063	-.473	-.489	-.559
9	.000,000	.000,000	.000,000	-.902	-1.462	-1.358	-.911
10	-.931	-1.568	-2.499	-1.021	-1.242	-1.132	-.735
11	-.858	-1.291	.000,000	-.964	-1.081	-.844	-.462
12	-1.062	-.933	-.841	-.755	-.764	-.508	-.227
13	-1.112	-.891	-.798	-.608	-.621	-.393	-.195
14	-1.557	-1.122	-.927	-.637	-.760	-.453	-.300
15	-.979	-.014	-.266	.011	-.020	-.010	-.126
16	-2.507	-2.331	-1.788	-1.281	-1.601	-1.328	-.648
17	-3.565	-3.539	-2.368	-1.912	-2.116	-1.807	-1.049
18	-3.831	-3.959	-2.731	-2.222	-2.346	-2.306	-1.315
19	-4.057	-3.958	-2.447	-2.195	-2.280	-2.188	-1.273
20	-2.691	-2.474	-1.276	-.892	-.649	-1.055	-.889
21	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
22	-1.719	-1.668	-.869	-.353	-.261	-.544	-.693
23	-1.170	-.676	-.298	-.260	-.226	-.364	-.510
24	-1.113	-.076	-.027	-.232	-.236	-.304	-.185
25	.866	.115	-1.099	-.211	.168	.001	-.281
26	1.061	.981	.651	-.555	.000,000	-.247	.068
27	.545	.918	.961	-.195	-.099	-.176	-.155
28	.202	.634	.734	.194	-.158	-.160	-.075
29	.013	.590	.633	.620	.434	.197	.217
30	-.011	.770	.727	.742	.650	.620	.151
31	.385	.964	.926	.844	.857	.667	.202
32	.493	.904	.928	1.026	1.080	.802	.310
33	.375	.681	.755	.846	.930	.686	.361

$\alpha = 40°$

TUBE NO	1	2	3	4	5	6	7
	WING STATIONS						
1	-.772	-2.026	-3.302	.626	.987	1.009	-.361
2	-1.844	-3.011	-3.919	.873	1.180	1.129	-.395
3	-1.997	-3.160	-3.778	.808	1.098	1.041	-.366
4	-2.000	-2.910	-3.127	.725	.846	.710	-.438
5	-1.778	-2.595	-1.738	.669	.486	.368	-.444
6	.000,000	.000,000	.000,000	-.318	-.179	-.201	-.136
7	.000,000	.000,000	.000,000	.457	.477	.486	.039
8	.000,000	.000,000	.000,000	-.232	-.568	-.504	-.467
9	.000,000	.000,000	.000,000	-1.144	-1.656	-1.423	-.893
10	-1.095	-1.671	-2.492	-1.230	-1.303	-1.080	-.574
11	.386	.933	.000,000	.924	.941	.822	.046
12	-1.121	-1.002	-.787	-.804	-.806	-.457	-.200
13	-1.301	-.991	-.736	-.655	-.631	-.314	-.145
14	-1.541	-1.112	-.813	-.689	-.772	-.418	-.132
15	-1.037	-.120	-.170	-.037	-.071	.136	.020
16	-2.532	-2.348	-1.708	-1.519	-1.863	-1.417	-.505
17	-3.547	-3.562	-2.126	-2.060	-2.483	-1.467	-.709
18	-4.020	-3.811	-2.174	-2.267	-2.728	-2.237	-1.077
19	-4.101	-3.784	-2.018	-2.284	-2.682	-2.059	-1.190
20	-3.195	-3.183	-1.601	-1.608	-1.822	-1.796	-1.000
21	-2.767	-2.276	-1.176	-.591	-1.020	-1.368	-.897
22	-1.892	-1.606	-.806	-.323	-.510	-1.004	-.713
23	-1.239	-.667	-.365	-.238	-.384	-.442	-.436
24	-1.135	-.143	-.134	-.264	-.353	-.148	-.283
25	.611	-.132	-1.316	.099	.177	.074	-.200
26	1.059	.931	.646	-.475	.000,000	-.240	.086
27	.547	.858	.966	-.224	-.183	-.151	-.101
28	.178	.616	.730	.438	-.271	-.154	-.034
29	-.027	.548	.629	.651	.609	.279	.190
30	-.099	.722	.721	.718	.666	.682	.199
31	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
32	.414	.860	.971	1.029	1.064	.905	.117
33	.340	.659	.824	.786	.921	.706	.442

$\alpha = 45°$

TUBE NO	1	2	3	4	5	6	7
	WING STATIONS						
1	-1.109	-2.294	-3.616	.776	1.100	.989	-.462
2	-2.275	-3.301	-4.136	.961	1.217	1.201	-.468
3	-2.401	-3.292	-3.768	.955	1.067	1.064	-.523
4	-2.381	-3.289	-3.373	.864	.855	.765	-.599
5	-2.022	-2.784	-1.738	.550	.427	.357	-.512
6	.000,000	.000,000	.000,000	-.300	-.185	-.122	-.224
7	.000,000	.000,000	.000,000	.358	.453	.552	.016
8	.000,000	.000,000	.000,000	-.418	-.627	-.418	-.271
9	.000,000	.000,000	.000,000	-1.276	-1.670	-1.403	-.844
10	-1.247	-1.760	-2.248	-1.416	-1.376	-.981	-.564
11	-1.036	-1.335	.000,000	-1.103	-1.089	-.540	-.294
12	-1.308	-.986	-.768	-.823	-.788	-.294	-.211
13	-1.328	-1.007	-.747	-.701	-.712	-.306	-.231
14	-1.093	-.134	-.134	-.057	-.090	-.191	-.165
15	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
16	-2.753	-2.288	-1.551	-1.811	-2.001	-1.156	-.629
17	-3.928	-3.330	-2.004	-2.376	-2.691	-1.254	-.913
18	-3.968	-3.341	-2.096	-2.630	-2.971	-1.656	-1.070
19	-3.828	-3.435	-1.913	-2.470	-2.971	-1.608	-.974
20	-3.147	-2.880	-1.462	-1.838	-2.147	-1.308	-1.107
21	-2.553	-1.997	-1.158	-1.005	-1.435	-1.624	-1.029
22	-1.907	-1.160	-.820	-.381	-.769	-.856	-.707
23	-1.260	-.463	-.311	-.320	-.517	-.308	-.401
24	-.999	-.236	-.186	-.253	-.176	-.079	-.166
25	.324	-.345	-1.546	.175	.248	.059	-.296
26	.981	.882	.647	-.439	.000,000	-.198	-.028
27	.632	.925	.945	-.145	-.199	-.041	-.182
28	.217	.592	.750	.444	-.257	-.170	-.126
29	-.075	.543	.672	.669	.663	.320	.141
30	-.153	.737	.752	.743	.747	.701	.033
31	.269	.873	.993	.979	.890	.819	.031
32	.410	.891	.905	1.076	1.097	.945	.073
33	.351	.622	.775	.863	.945	.747	.110

$\alpha = 50°$

TUBE NO	1	2	3	4	5	6	7
	WING STATIONS						
1	-1.552	-2.727	-3.998	.917	1.163	.971	-.491
2	-2.750	-3.598	-4.335	.961	1.190	1.038	-.691
3	-2.767	-3.624	-4.043	.936	1.063	.992	-.731
4	-2.636	-3.285	-3.213	.749	.763	.666	-.525
5	-2.331	-2.951	-1.765	.514	.425	.343	-.375
6	.000,000	.000,000	.000,000	-.262	-.130	-.204	-.224
7	.000,000	.000,000	.000,000	.371	.431	.481	-.073
8	.000,000	.000,000	.000,000	-.552	-.616	-.345	-.309
9	.000,000	.000,000	.000,000	-1.486	-1.633	-1.102	-.467
10	-1.376	-1.838	-2.162	-1.575	-1.366	-.852	-.394
11	-1.130	-1.440	.000,000	-1.195	-1.062	-.535	-.377
12	-1.187	-1.000	-.855	-.838	-.704	-.340	-.317
13	-1.445	-1.053	-.875	-.773	-.634	-.297	-.307
14	-1.524	-1.097	-.865	-.792	-.662	-.239	-.289
15	-1.101	-.172	-.226	-.118	-.105	.025	-.238
16	-2.412	-2.188	-1.612	-1.797	-1.764	-.895	-.600
17	-3.324	-2.878	-2.110	-2.600	-2.180	-.852	-.732
18	-3.834	-2.947	-2.110	-2.806	-2.347	-1.196	-.899
19	-3.709	-2.825	-2.099	-3.073	-2.743	-1.028	-.910
20	-3.080	-2.248	-1.671	-2.441	-1.957	-1.242	-.878
21	-2.387	-1.702	-1.267	-1.644	-1.324	-.831	-.649
22	-1.711	-1.088	-.877	-.631	-1.015	-.592	-.643
23	-1.296	-.500	-.387	-.403	-.224	-.242	-.305
24	-.818	-.328	-.316	-.372	-.135	-.160	-.191
25	.144	-.589	-1.829	-.106	.283	-.022	-.263
26	.958	.857	.582	-.471	.000,000	-.304	-.106
27	.637	.862	.922	-.145	-.134	-.234	-.281
28	.187	.564	.693	.389	-.201	-.136	-.075
29	-.082	.478	.590	.632	.610	.138	.095
30	-.204	.667	.698	.811	.724	.610	-.035
31	.222	.853	.828	.990	.906	.688	-.002
32	.395	.852	.736	1.075	1.119	.851	.012
33	.293	.585	.527	.820	.845	.602	-.046

$\alpha = 55°$

TUBE NO	1	2	3	4	5	6	7
	WING STATIONS						
1	-1.983	-2.733	-3.957	.944	1.072	.801	-.350
2	-3.172	-3.758	-4.470	1.025	1.197	.940	-.256
3	-3.139	-3.800	-4.175	.966	1.039	.880	-.402
4	-2.960	-3.517	-3.385	.725	.775	.744	-.369
5	-2.550	-3.043	-1.753	.472	.400	.327	-.165
6	.000,000	.000,000	.000,000	-.310	-.187	-.253	-.206
7	.000,000	.000,000	.000,000	.296	.429	.558	.044
8	.000,000	.000,000	.000,000	-.581	-.613	-.237	-.165
9	.000,000	.000,000	.000,000	-1.616	-1.601	-.921	-.490
10	-1.551	-1.942	-2.287	-1.708	-1.336	-.657	-.275
11	-1.238	-1.517	.000,000	-1.223	-.985	-.309	-.119
12	-1.207	-1.089	-.834	-.895	-.656	-.299	-.277
13	-1.436	-1.106	-.845	-.767	-.528	-.191	-.215
14	-1.212	-.200	-.259	-.133	-.061	.198	-.059
15	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
16	-2.395	-2.233	-1.686	-1.758	-1.390	-.557	-.584
17	-3.509	-2.881	-2.121	-2.484	-1.429	-.866	-.929
18	-3.916	-2.954	-2.382	-3.031	-2.207	-.780	-.795
19	-3.546	-2.744	-2.154	-3.162	-2.485	-.650	-.734
20	-2.933	-2.153	-1.630	-2.413	-1.215	-.519	-.655
21	-2.335	-1.662	-1.344	-1.719	-1.353	-.498	-.511
22	-1.828	-1.238	-.914	-1.038	-.666	-.439	-.436
23	-1.175	-.585	-.391	-.323	-.270	-.288	-.351
24	-.723	-.412	-.411	-.271	-.143	-.115	-.180
25	-.217	-.640	-1.698	.289	.305	-.156	-.243
26	.849	.804	.606	-.379	.000,000	-.331	-.045
27	.613	.860	.897	-.203	-.186	-.168	-.119
28	.138	.544	.709	.285	-.189	-.120	-.083
29	-.174	.430	.644	.608	.502	.167	.102
30	-.288	.671	.791	.711	.686	.605	.016
31	.203	.839	.845	.950	.878	.645	.002
32	.323	.840	.703	1.036	1.094	.785	.007
33	.290	.531	.504	.847	.887	.559	.183

$\alpha = 60°$

TUBE NO	1	2	3	4	5	6	7
	WING STATIONS						
1	-2.686	-3.067	-4.029	.943	1.063	.464	-.051
2	-3.928	-4.120	-4.724	.928	1.158	.894	-.207
3	-3.788	-4.090	-4.245	.924	1.061	.643	-.082
4	-3.525	-3.761	-3.554	.719	.759	.591	-.071
5	-2.929	-3.258	-2.005	.358	.352	.385	-.151
6	.000,000	.000,000	.000,000	-.281	-.181	-.131	-.078
7	.000,000	.000,000	.000,000	.313	.470	.557	.036
8	.000,000	.000,000	.000,000	-.782	-.663	-.026	-.106
9	.000,000	.000,000	.000,000	-1.744	-1.558	-.494	-.168
10	-1.761	-2.048	-2.525	-1.814	-1.266	-.351	-.126
11	-1.308	-1.481	.000,000	-1.143	-.823	-.192	-.172
12	-1.121	-1.117	-.833	-.800	-.513	-.202	-.157
13	-1.516	-1.102	-.863	-.740	-.467	-.079	-.085
14	-1.621	-1.219	-.909	-.798	-.494	-.127	-.186
15	-1.263	-.191	-.343	-.108	.177	.284	-.144
16	-2.520	-2.200	-1.761	-1.566	-.937	-.474	-.392
17	-3.468	-2.673	-2.237	-2.148	-1.213	-.602	-.547
18	-3.509	-2.680	-2.558	-2.098	-.889	-.858	-.740
19	-2.974	-2.514	-2.383	-2.238	-1.230	-.855	-.392
20	-2.542	-1.964	-1.876	-1.718	-.765	-.487	-.468
21	-1.914	-1.542	-1.412	-1.167	-.644	-.440	-.302
22	-1.631	-1.184	-1.006	-.853	-.682	-.390	-.435
23	-1.209	-.526	-.428	-.345	-.321	-.308	-.338
24	-.749	-.415	-.461	-.120	-.056	-.138	-.143
25	-.720	-.739	-1.817	.249	.241	-.387	-.116
26	.570	.762	.531	-.348	.000,000	-.304	.015
27	.376	.895	.924	-.194	-.144	-.157	.012
28	-.002	.536	.699	.309	-.206	-.127	.013
29	-.348	.470	.591	.622	.370	.186	.179
30	-.507	.616	.660	.659	.628	.569	.001
31	.055	.903	.816	.947	.878	.729	.013
32	.164	.858	.679	1.060	1.061	.805	.054
33	.154	.569	.537	.889	.915	.588	.038

Table 25.- Continued.

(a) $C_{T,S} = 0.90$, $q_S = 20.21$

$\alpha = 65°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-3.186	-3.285	-4.097	.932	1.078	.318	-.182
2	-4.241	-4.439	-4.735	.996	1.212	.630	-.076
3	-4.147	-4.431	-4.442	.921	1.073	.712	-.046
4	-3.550	-3.872	-3.547	.656	.809	.598	-.104
5	-2.901	-3.374	-1.987	.324	.353	.433	-.132
6	*000.000	*000.000	*000.000	-.372	-.147	-.046	-.018
7	*000.000	*000.000	*000.000	.210	.450	.569	-.059
8	*000.000	*000.000	*000.000	-.753	-.445	.144	-.127
9	*000.000	*000.000	*000.000	-1.806	-1.369	-.266	-.238
10	-1.663	-2.132	-2.731	-1.844	-1.060	-.080	-.129
11	-1.321	-1.635	*000.000	-1.259	-.797	-.145	-.176
12	-1.026	-1.174	-.837	-.761	-.462	-.018	-.080
13	-1.286	-1.155	-.872	-.657	-.312	.027	-.076
14	-1.043	-.194	-.240	-.168	.020	.179	-.107
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	-2.021	-2.106	-1.742	-1.460	-.965	-.585	-.311
17	-2.530	-2.663	-2.323	-1.969	-1.054	-.709	-.603
18	-2.776	-2.517	-2.356	-1.977	-1.173	-.792	-.653
19	-2.897	-2.485	-2.444	-2.454	-1.447	-.842	-.612
20	-1.834	-1.788	-1.790	-1.227	-.615	-.563	-.688
21	-1.691	-1.541	-1.494	-1.191	-.593	-.370	-.334
22	-1.340	-.892	-.717	-.756	-.588	-.377	-.425
23	-.901	-.481	-.341	-.278	-.138	-.293	-.255
24	-.593	-.395	-.401	-.179	-.116	-.161	-.200
25	-1.158	-1.038	-1.838	.195	.143	-.387	-.121
26	.577	.722	.570	-.408	*000.000	-.381	.011
27	.447	.789	.901	-.258	-.127	-.015	-.084
28	.075	.501	.725	.102	-.209	-.165	-.055
29	-.215	.371	.570	.563	.375	.125	-.024
30	-.347	.623	.713	.644	.614	.642	-.083
31	.200	.887	.845	.965	.797	.756	-.089
32	.278	.804	.573	.974	.993	.678	.009
33	.141	.480	.510	.801	.847	.401	-.189

$\alpha = 70°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-3.738	-3.621	-4.225	.954	1.037	-.211	-.039
2	-4.504	-4.693	-4.855	1.060	1.188	.315	-.078
3	-4.374	-4.665	-4.419	1.008	1.056	.173	-.142
4	-3.863	-4.185	-3.720	.700	.834	.144	-.183
5	-3.168	-3.587	-2.158	.492	.624	.235	-.060
6	*000.000	*000.000	*000.000	-.346	-.212	-.298	-.069
7	*000.000	*000.000	*000.000	.307	.563	.305	0.
8	*000.000	*000.000	*000.000	-.788	-.418	-.249	-.194
9	*000.000	*000.000	*000.000	-1.762	-1.112	-.206	-.181
10	-1.735	-2.273	-2.762	-1.857	-.835	-.226	-.115
11	-1.287	-1.542	*000.000	-1.018	-.572	-.195	-.137
12	-.983	-1.073	-.810	-.694	-.339	-.247	-.102
13	-1.514	-1.109	-.868	-.607	-.276	-.169	-.089
14	-1.373	-1.098	-.892	-.593	-.347	-.174	-.302
15	-1.060	-.163	-.228	-.054	.104	.151	.012
16	-2.193	-2.013	-1.700	-1.456	-.790	-.669	-.443
17	-2.376	-2.358	-2.086	-1.757	-1.298	-1.081	-.586
18	-2.791	-2.186	-2.183	-1.591	-.898	-.765	-.489
19	-2.236	-2.041	-2.137	-1.339	-.731	-.667	-.398
20	-2.107	-1.773	-1.834	-1.013	-.562	-.742	-.516
21	-1.265	-1.252	-1.326	-.907	-.486	-.266	-.397
22	-1.195	-.916	-.839	-.440	-.178	-.226	-.160
23	-.920	-.389	-.359	-.295	-.300	-.345	-.314
24	-.629	-.376	-.409	-.115	-.109	-.220	-.006
25	-1.731	-1.151	-1.929	.169	-.019	-.741	-.157
26	.205	.726	.570	-.315	*000.000	-.366	.052
27	.249	.848	.847	-.230	-.269	-.205	.046
28	-.038	.454	.659	-.062	-.199	-.174	.005
29	-.345	.382	.549	.559	.194	.059	.080
30	-.422	.675	.634	.615	.514	.319	.008
31	.027	.905	.725	.741	.573	.544	-.005
32	.212	.820	.613	1.000	.958	.442	.082
33	.088	.509	.468	.850	.840	.337	-.165

$\alpha = 75°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-3.951	-3.839	-4.062	.873	.914	-.089	-.084
2	-4.685	-4.992	-4.855	1.075	1.229	.072	-.063
3	-4.535	-4.886	-4.392	.996	1.152	-.161	-.144
4	-3.789	-4.528	-3.817	.769	.986	-.095	-.141
5	-2.977	-3.606	-2.067	.535	.717	-.030	-.101
6	*000.000	*000.000	*000.000	-.250	-.182	-.132	-.024
7	*000.000	*000.000	*000.000	.323	.721	.124	-.097
8	*000.000	*000.000	*000.000	-.712	.053	-.187	-.135
9	*000.000	*000.000	*000.000	-1.708	-.715	-.152	-.196
10	-1.595	-2.169	-2.360	-1.722	-.718	-.277	-.245
11	-1.297	-1.499	*000.000	-1.071	-.588	-.333	-.220
12	-.948	-1.153	-.803	-.524	-.304	-.086	-.096
13	-1.213	-.997	-.688	-.450	-.182	-.322	-.143
14	-1.227	-1.001	-.793	-.518	-.251	-.172	-.204
15	-1.105	-.203	-.204	-.014	.078	-.037	-.197
16	-1.544	-1.699	-1.497	-1.129	-.515	-.426	-.200
17	-2.494	-2.336	-2.132	-1.645	-.865	-.806	-.698
18	-2.611	-2.395	-2.512	-1.769	-1.068	-.673	-.572
19	-2.162	-1.995	-2.161	-1.495	-1.016	-.931	-.543
20	-1.503	-1.639	-1.750	-1.398	-.803	-.396	-.352
21	-1.338	-1.266	-1.309	-.603	-.445	-.351	-.202
22	-1.148	-.949	-.839	-.488	-.640	-.535	-.315
23	-.710	-.418	-.456	-.261	-.208	-.175	-.237
24	-.472	-.323	-.262	-.121	-.064	-.073	-.094
25	-2.149	-1.292	-1.974	.122	-.073	-.529	-.136
26	.066	.660	.533	-.306	*000.000	-.157	.067
27	.151	.811	.860	-.202	-.243	-.024	.011
28	.044	.441	.640	-.127	-.211	-.218	-.087
29	-.281	.305	.456	.538	.279	-.004	.033
30	-.492	.613	.645	.633	.379	.276	-.088
31	.011	.865	.632	.782	.707	.521	.106
32	.228	.784	.526	.982	.898	.340	.002
33	.079	.431	.458	.908	.953	.207	.068

$\alpha = 80°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-4.399	-4.121	-4.247	.903	.475	-.114	-.208
2	-4.757	-5.133	-4.674	1.001	.876	-.307	-.293
3	-4.442	-4.766	-4.241	.977	1.095	-.007	-.263
4	-1.737	-.813	-.398	-.270	-.159	-.042	-.094
5	-3.039	-3.938	-2.203	.509	.759	.115	-.361
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	.349	.672	.051	-.211
8	*000.000	*000.000	*000.000	-.641	-.042	-.149	-.236
9	*000.000	*000.000	*000.000	-1.755	-.851	-.347	-.242
10	-1.521	-2.085	-1.983	-1.540	-.384	-.132	-.214
11	-1.205	-1.413	*000.000	-.943	-.351	-.147	-.197
12	-.982	-1.050	-.709	-.561	-.334	-.192	-.100
13	-1.212	-.982	-.694	-.589	-.297	-.170	-.328
14	-1.325	-.829	-.662	-.463	-.369	-.183	-.299
15	-.956	-.233	-.096	.033	.005	.252	-.192
16	-1.823	-1.575	-1.376	-.939	-.719	-.663	-.490
17	-2.165	-2.010	-1.755	-.883	-.867	-.595	-.612
18	-2.245	-2.001	-2.115	-1.576	-.896	-.808	-.583
19	-2.099	-1.915	-2.028	-1.423	-.969	-.602	-.633
20	-1.938	-1.698	-1.694	-1.107	-.410	-.193	-.276
21	-1.327	-1.278	-1.227	-1.013	-.696	-.469	-.452
22	-.940	-.708	-.560	-.593	-.450	-.353	-.440
23	-.653	-.345	-.298	-.299	-.234	-.178	-.356
24	-.453	-.275	-.185	-.091	-.167	-.046	-.096
25	-2.659	-1.413	-1.897	.117	-.083	-.464	-.136
26	-.329	.569	.498	-.211	*000.000	-.141	-.073
27	.021	.761	.858	-.217	-.223	-.186	-.071
28	-.089	.396	.605	-.230	-.218	-.042	-.072
29	-.253	.316	.504	.362	-.073	.004	-.189
30	-.743	.627	.556	.580	.346	.597	-.187
31	.009	.779	.665	.704	.405	.421	-.100
32	.143	.620	.567	.748	.323	.180	-.264
33	.028	.330	.502	.940	.853	.173	-.244

Table 25. - Continued.

(b) $C_{T,S} = 0.80$, $q_s = 20.03$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.837	.568	.226	-.380	.469	.760	.383
2	.194	-.168	-.319	.145	1.000	1.102	.522
3	-.070	-.528	-.625	.447	1.133	1.143	.453
4	.101	-.040	-.123	-.221	-.030	.091	.039
5	-.606	-1.108	-.958	.857	.963	.858	.249
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	.725	.767	.657	.309
8	*000.000	*000.000	*000.000	.251	.042	-.114	-.188
9	*000.000	*000.000	*000.000	-.505	-.808	-.840	-.840
10	-.541	-.982	-1.176	-.731	-.815	-.809	-.669
11	-.558	-1.028	*000.000	-.815	-.873	-.681	-.582
12	-1.093	-.733	-.812	-.628	-.652	-.502	-.391
13	-.563	-.756	-.784	-.533	-.503	-.350	-.268
14	-.693	-.815	-.784	-.521	-.504	-.337	-.280
15	-.251	.015	-.092	.121	-.096	.050	-.144
16	-1.458	-1.760	-1.532	-.796	-.591	-.396	-.330
17	-2.103	-2.642	-2.147	-1.230	-.889	-.500	-.593
18	-2.487	-2.813	-2.624	-1.353	-.753	-.616	-.753
19	-2.467	-2.638	-2.421	-1.250	-.691	-.606	-.447
20	-2.315	-2.068	-1.554	-.539	-.329	-.151	-.173
21	-2.026	-1.252	-.762	-.315	-.153	-.100	-.210
22	-1.600	-.404	-.298	-.289	-.185	-.115	-.191
23	-.797	-.354	-.262	-.241	-.175	-.150	-.212
24	-.566	-.327	-.194	-.224	-.146	-.137	-.257
25	1.004	1.072	.693	-.648	-.174	-.112	-.019
26	.609	.936	.831	-.528	*000.000	-.280	.127
27	.077	.434	.542	-.202	-.129	.054	-.034
28	.053	.303	.431	-.188	-.044	.086	0.
29	.173	.528	.445	.126	-.084	.057	.065
30	.349	.836	.577	.185	.089	.068	-.093
31	.808	1.093	.928	.044	.015	.164	-.111
32	.800	1.011	.919	.215	.163	.208	-.043
33	.622	.810	.748	.749	.180	.117	.017

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.704	.104	-.467	-.151	.679	.837	.477
2	-.139	-.879	-1.168	.389	1.263	1.341	.582
3	-.340	-1.082	-1.165	.608	1.220	1.237	.482
4	-.663	-1.350	-1.417	.783	1.171	1.081	.349
5	-.729	-1.336	-1.257	.783	.897	.748	.077
6	*000.000	*000.000	*000.000	-.153	-.010	.101	.018
7	*000.000	*000.000	*000.000	.635	.712	.559	.201
8	*000.000	*000.000	*000.000	.111	-.131	-.194	-.352
9	*000.000	*000.000	*000.000	-.698	-1.061	-1.039	-.879
10	-.661	-1.177	-1.332	-.846	-.973	-.942	-.804
11	-.630	-1.135	*000.000	-.892	-.963	-.757	-.561
12	-1.140	-.783	-.815	-.673	-.687	-.484	-.392
13	-.556	-.802	-.807	-.570	-.535	-.402	-.298
14	-.368	-.102	-.120	.042	.010	.062	-.031
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	-1.576	-1.809	-1.594	-.891	-.689	-.518	-.420
17	-2.473	-2.807	-2.416	-1.517	-1.343	-.926	-.872
18	-2.600	-2.840	-2.543	-1.390	-1.156	-.854	-.885
19	-2.596	-2.622	-2.276	-1.340	-.671	-.981	-.675
20	-2.386	-1.909	-1.559	-.623	-.418	-.232	-.373
21	-2.224	-1.306	-.909	-.380	-.300	-.271	-.361
22	-1.637	-.453	-.322	-.283	-.183	-.271	-.299
23	-.868	-.429	-.304	-.267	-.174	-.242	-.318
24	-.651	-.425	-.231	-.198	-.127	-.204	-.321
25	1.104	.985	.405	-.483	0.	.075	.122
26	.780	1.013	.774	-.485	*000.000	-.148	.115
27	.274	.619	.731	-.123	.027	.041	-.017
28	.154	.437	.557	-.143	-.043	.084	.053
29	.205	.511	.526	.205	.059	.115	.082
30	.259	.715	.577	.305	.236	.203	.045
31	.707	1.047	.916	.261	.184	.247	.073
32	.775	.966	.861	.395	.291	.195	.177
33	.606	.806	.803	.973	.669	.200	.043

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.410	-.393	-1.391	.161	.888	.909	.478
2	-.427	-1.523	-2.176	.601	1.179	1.186	.453
3	-.702	-1.675	-2.155	.677	1.175	1.071	.347
4	-.967	-1.777	-2.088	.654	1.024	.868	.094
5	-1.127	-1.847	-1.739	.712	.729	.532	-.079
6	*000.000	*000.000	*000.000	-.107	.002	.066	.058
7	*000.000	*000.000	*000.000	.524	.549	.558	.098
8	*000.000	*000.000	*000.000	-.009	-.384	-.478	-.616
9	*000.000	*000.000	*000.000	-.881	-1.418	-1.444	-1.221
10	-.765	-1.284	-1.492	-.934	-1.152	-1.133	-.882
11	-.763	-1.224	*000.000	-.985	-1.133	-.969	-.670
12	-1.332	-.943	-.949	-.801	-.834	-.665	-.431
13	-.750	-.892	-.857	-.608	-.617	-.500	-.321
14	-.999	-1.015	-.933	-.618	-.680	-.532	-.335
15	-.655	-.199	-.269	.006	.003	.087	-.088
16	-2.036	-2.007	-1.794	-1.226	-1.327	-1.079	-.644
17	-2.778	-2.669	-2.335	-1.593	-1.547	-1.253	-1.011
18	-3.385	-2.971	-2.896	-1.873	-1.525	-1.539	-1.236
19	-3.335	-2.915	-2.747	-1.557	-1.291	-1.586	-1.198
20	-3.024	-2.069	-2.058	-1.058	-.669	-.791	-.938
21	-2.450	-1.414	-1.240	-.385	-.325	-.433	-.416
22	-1.609	-.562	-.752	-.375	-.185	-.275	-.244
23	-.995	-.567	-.353	-.345	-.190	-.211	-.179
24	-.852	-.434	-.397	-.208	-.201	-.206	-.295
25	1.008	.703	-.233	-.270	.142	.201	.164
26	.918	1.086	.748	-.334	*000.000	.027	.055
27	.392	.818	.769	-.104	.005	.033	0.
28	.164	.525	.615	-.014	-.023	-.022	.024
29	.144	.550	.561	.345	.120	.171	.247
30	.205	.773	.643	.350	.363	.359	.098
31	.596	1.014	.949	.602	.512	.393	.143
32	.631	.954	.889	.860	.513	.328	.173
33	.518	.742	.772	.957	.678	.491	.256

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.120	-1.191	-2.667	.696	1.766	1.079	.357
2	-.852	-2.169	-3.285	.801	1.868	1.135	.297
3	-1.091	-2.357	-2.970	.820	1.792	1.041	.119
4	-1.544	-2.741	-3.299	.803	1.746	.816	-.044
5	-1.374	-2.315	-2.286	.640	1.253	.366	-.255
6	*000.000	*000.000	*000.000	-.094	.693	.094	.025
7	*000.000	*000.000	*000.000	.516	1.183	.385	-.203
8	*000.000	*000.000	*000.000	-.240	.096	-.722	-.802
9	*000.000	*000.000	*000.000	-1.090	-.940	-1.647	-1.337
10	-.992	-1.602	-1.872	-1.248	-.709	-1.377	-1.119
11	-.842	-1.314	*000.000	-1.045	-.522	-.989	-.693
12	-1.350	-.975	-.923	-.767	-.193	-.665	-.417
13	-.934	-1.045	-.917	-.678	-.069	-.614	-.384
14	-1.336	-1.221	-1.053	-.837	-.120	-.661	-.395
15	-.912	-.256	-.255	.029	.708	-.064	-.085
16	-2.507	-2.538	-2.067	-1.362	-.841	-1.294	-.809
17	-3.349	-3.344	-2.695	-2.008	-1.368	-1.762	-1.233
18	-4.238	-3.931	-3.029	-2.355	-1.551	-2.169	-1.471
19	-4.406	-4.122	-2.843	-2.369	-1.307	-2.237	-1.493
20	-3.786	-3.251	-2.149	-1.379	-.437	-.923	-.949
21	-3.395	-2.777	-1.543	-.464	.237	-.756	-.798
22	-2.136	-1.734	-.732	-.318	.433	-.400	-.530
23	-1.321	-.767	-.154	-.273	.408	-.352	-.336
24	-.966	-.534	-.087	-.244	.487	-.280	-.270
25	1.043	.399	-1.132	.295	1.000	.259	.279
26	.981	.994	.634	-.221	*000.000	.063	.067
27	.502	.942	.925	-.021	.664	-.016	.006
28	.221	.642	.761	.286	.664	.021	.136
29	.148	.598	.619	.650	1.027	.328	.285
30	.107	.799	.753	.778	1.274	.595	.259
31	.472	.979	.927	.868	1.408	.591	.267
32	.589	.986	.982	1.035	1.592	.746	.375
33	.478	.771	.749	.948	1.611	.761	.629

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.301	-2.147	-3.877	.846	1.144	1.220	.146
2	-1.391	-3.191	-4.540	.932	1.235	1.184	.029
3	-1.492	-3.104	-4.179	.818	1.045	.972	-.090
4	-1.704	-3.080	-3.874	.679	.785	.643	-.322
5	-1.546	-2.686	-2.724	.460	.395	.271	-.510
6	*000.000	*000.000	*000.000	-.164	-.050	.058	-.100
7	*000.000	*000.000	*000.000	.379	.477	.46	-.252
8	*000.000	*000.000	*000.000	-.435	-.802	-.835	-.877
9	*000.000	*000.000	*000.000	-1.513	-1.952	-1.931	-1.655
10	-1.351	-1.075	-.942	-.918	-.993	-.738	-.527
11	.385	.975	*000.000	1.118	.915	.984	.184
12	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
13	-1.142	-1.120	-.947	-.801	-.855	-.634	-.378
14	-1.473	-1.190	-.997	-.796	-.858	-.595	-.391
15	-1.038	-.335	-.262	-.067	-.086	-.035	-.113
16	-2.987	-2.846	-2.096	-1.760	-1.869	-1.717	-.965
17	-4.126	-4.025	-2.624	-2.626	-2.465	-2.274	-1.597
18	-4.519	-4.146	-2.598	-2.777	-2.947	-2.878	-1.929
19	-4.449	-4.350	-2.772	-2.743	-2.500	-2.793	-1.633
20	-3.594	-3.649	-2.101	-2.022	-1.423	-1.727	-1.362
21	-3.123	-2.660	-1.342	-.944	-.807	-.609	-.922
22	-2.274	-1.842	-.916	-.442	-.336	-.498	-.742
23	-1.308	-.802	-.354	-.294	-.290	-.300	-.388
24	-1.414	-.018	-.156	-.329	-.280	-.315	-.380
25	.891	-.175	-1.773	.384	.393	.378	-.021
26	1.025	.951	.551	-.175	*000.000	.006	.041
27	.593	.949	.907	-.055	-.017	.050	-.148
28	.247	.690	.792	.608	-.012	-.029	.068
29	.117	.621	.632	.700	.701	.469	.434
30	-.032	.807	.725	.800	.848	.752	.231
31	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
32	.505	.934	.939	1.077	1.060	1.070	.543
33	.450	.717	.759	.897	.919	.700	.376

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.782	-2.841	-4.677	1.007	1.163	1.190	-.238
2	-1.890	-4.025	-5.576	.938	1.147	1.148	-.426
3	-1.901	-3.722	-4.882	.730	.926	.906	-.406
4	-2.113	-3.553	-4.475	.531	.646	.537	-.574
5	-1.870	-3.036	-3.027	.378	.205	.112	-.775
6	*000.000	*000.000	*000.000	-.037	-.124	-.046	-.185
7	*000.000	*000.000	*000.000	.320	.368	.103	-.562
8	*000.000	*000.000	*000.000	-.751	-1.051	-.920	-1.046
9	*000.000	*000.000	*000.000	-1.691	-2.188	-2.040	-1.551
10	-1.289	-2.051	-2.157	-1.818	-1.856	-1.767	-1.255
11	-1.098	-1.496	*000.000	-1.297	-1.466	-1.156	-.750
12	-1.490	-1.193	-1.014	-1.007	-1.122	-.766	-.417
13	-1.372	-1.201	-.936	-.842	-.945	-.681	-.397
14	-1.116	-.405	-.246	.017	-.075	-.003	-.175
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	-2.935	-2.684	-1.893	-1.682	-2.079	-1.640	-.821
17	-3.805	-3.720	-2.141	-2.309	-2.583	-2.376	-1.467
18	-4.220	-4.131	-2.388	-2.724	-2.749	-2.916	-1.675
19	-3.872	-4.164	-2.295	-2.673	-2.669	-3.228	-1.505
20	-3.364	-3.305	-1.662	-1.484	-1.683	-2.486	-1.408
21	-2.693	-2.476	-1.239	-.625	-1.019	-1.605	-1.146
22	-2.236	-1.568	-.939	-.393	-.483	-1.032	-.969
23	-1.573	-.651	-.376	-.266	-.328	-.442	-.484
24	-1.407	-.047	-.229	-.301	-.372	-.292	-.306
25	.867	-.625	-2.379	.627	.470	.426	-.164
26	.650	.995	1.013	.101	*000.000	-.033	-.219
27	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
28	.251	.694	.812	.813	.049	-.066	.132
29	.036	.614	.700	.735	.728	.530	.333
30	-.069	.819	.831	.975	.781	.851	.087
31	.310	.977	1.052	1.121	1.089	1.227	.110
32	.504	1.002	1.008	1.196	1.163	1.177	.539
33	.394	.728	.693	1.043	.901	.714	.274

Table 25. - Continued.

(b) $C_{T,S} = 0.80$, $q_s = 20.03$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.116	-3.417	-5.357	.981	1.218	1.184	-.518
2	-2.210	-4.466	-5.998	.708	1.034	1.039	-.660
3	-2.380	-4.406	-5.710	.554	.848	.807	-.823
4	-.523	-.418	-.215	.078	-.141	-.071	-.410
5	-2.105	-3.383	-3.305	.092	.027	-.134	-1.047
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	.034	.235	.152	-.549
8	*000.000	*000.000	*000.000	-.968	-1.134	-.915	-1.041
9	*000.000	*000.000	*000.000	-1.953	-2.208	-1.903	-1.387
10	-1.366	-2.050	-2.018	-1.862	-1.817	-1.493	-1.076
11	-1.207	-1.587	*000.000	-1.464	-1.527	-1.068	-.769
12	-1.426	-1.197	-.954	-1.049	-1.086	-.680	-.506
13	-1.349	-1.153	-.856	-.879	-.945	-.483	-.382
14	-1.724	-1.277	-.819	-.859	-1.016	-.572	-.435
15	-1.291	-.443	-.153	-.097	-.229	.041	-.293
16	-2.746	-2.600	-1.667	-1.853	-2.300	-1.301	-.854
17	-3.340	-3.628	-1.999	-2.512	-2.963	-1.667	-1.098
18	-4.004	-4.011	-2.224	-2.816	-3.589	-2.355	-1.438
19	-3.321	-3.870	-2.107	-2.419	-3.062	-2.521	-1.274
20	-3.034	-3.371	-1.701	-1.974	-2.692	-2.448	-1.552
21	-2.306	-2.404	-1.253	-.761	-1.884	-1.740	-1.223
22	-1.974	-1.434	-.906	-.383	-.691	-1.157	-.830
23	-1.550	-.486	-.289	-.368	-.509	-.552	-.745
24	-1.326	-.179	-.285	-.282	-.397	-.104	-.265
25	.467	-1.077	-2.683	.786	.667	.580	-.595
26	1.063	.800	.437	-.050	*000.000	-.044	-.122
27	.720	1.001	1.031	.200	-.335	-.037	-.305
28	.254	.721	.917	.819	.745	-.069	.058
29	.009	.626	.797	.768	.726	.595	.240
30	-.186	.813	.879	.926	.830	.873	.010
31	.315	.943	1.006	1.081	1.179	1.143	-.044
32	.451	.964	.911	1.107	1.177	1.157	.472
33	.389	.739	.716	.830	.967	.770	.282

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.690	-4.275	-6.349	1.117	1.284	1.191	-.949
2	-3.053	-5.558	-7.338	.719	1.067	1.022	-1.016
3	-3.029	-5.239	-6.513	.563	.759	.831	-.854
4	-2.917	-4.538	-5.292	.254	.351	.279	-1.144
5	-2.607	-3.966	-3.804	-.010	-.073	-.284	-1.234
6	*000.000	*000.000	*000.000	.143	-.087	-.101	-.233
7	*000.000	*000.000	*000.000	-.223	-.099	-.110	-.732
8	*000.000	*000.000	*000.000	-1.179	-1.299	-1.146	-1.210
9	*000.000	*000.000	*000.000	-2.410	-2.576	-2.210	-1.583
10	-1.617	-2.259	-2.245	-2.148	-2.009	-1.535	-.944
11	-1.307	-1.637	*000.000	-1.493	-1.476	-.951	-.581
12	-1.351	-1.206	-.963	-1.065	-1.060	-.683	-.397
13	-1.584	-1.251	-.966	-.902	-.950	-.492	-.341
14	-2.007	-1.359	-1.026	-.997	-1.082	-.529	-.410
15	-1.337	-.448	-.267	-.062	-.219	.132	-.247
16	-2.597	-2.612	-1.793	-2.002	-2.451	-1.756	-.855
17	-3.245	-3.675	-2.208	-2.635	-3.162	-1.646	-.930
18	-3.795	-4.093	-2.315	-2.924	-3.510	-2.274	-1.340
19	-3.545	-3.821	-2.247	-3.044	-3.670	-2.093	-1.520
20	-2.896	-2.999	-1.655	-2.360	-2.781	-1.754	-1.518
21	-2.195	-2.168	-1.193	-1.017	-2.175	-1.476	-1.019
22	-1.966	-1.403	-.908	-.343	-1.029	-1.169	-1.068
23	-1.683	-.474	-.418	-.393	-.524	-.600	-.650
24	-1.389	-.330	-.439	-.394	-.289	-.273	-.339
25	.168	-1.653	-3.583	1.002	.808	.518	-.512
26	1.082	.779	.346	-.103	*000.000	-.092	-.031
27	.730	1.061	.973	.281	-.382	-.124	-.289
28	.278	.812	.925	.892	.988	-.081	.155
29	-.040	.640	.777	.798	.716	.530	.200
30	-.226	.811	.851	.928	.808	.805	-.061
31	.212	.998	1.001	1.179	1.201	1.064	.012
32	.423	1.001	.866	1.162	1.234	1.123	.492
33	.333	.699	.613	.910	.916	.616	.057

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.279	-4.889	-6.762	1.045	1.277	1.186	-.833
2	-3.543	-6.018	-7.532	.671	.966	.981	-.982
3	-3.379	-5.495	-6.515	.404	.650	.663	-.992
4	-3.232	-4.859	-5.476	.147	.268	.222	-1.033
5	-2.726	-3.976	-3.498	-.071	-.108	-.178	-.998
6	*000.000	*000.000	*000.000	.086	-.084	-.015	-.222
7	*000.000	*000.000	*000.000	-.424	-.241	.099	-.459
8	*000.000	*000.000	*000.000	-1.392	-1.346	-.918	-.728
9	*000.000	*000.000	*000.000	-2.516	-2.503	-1.680	-.719
10	-1.685	-2.353	-2.295	-2.276	-1.994	-1.310	-.583
11	-1.322	-1.646	*000.000	-1.489	-1.331	-.660	-.349
12	-1.312	-1.255	-.955	-1.118	-1.017	-.521	-.281
13	-1.499	-1.239	-.957	-.966	-.837	-.452	-.340
14	-1.715	-1.235	-.999	-1.065	-.907	-.401	-.327
15	-1.162	-.466	-.271	-.154	-.199	.029	-.280
16	-2.814	-2.658	-1.857	-2.255	-2.127	-.988	-.656
17	-3.219	-3.558	-2.267	-3.150	-3.045	-1.065	-.692
18	-3.563	-3.703	-2.473	-3.367	-3.362	-1.940	-1.196
19	-3.390	-3.795	-2.499	-3.987	-3.519	-1.643	-.936
20	-2.739	-2.698	-1.797	-2.975	-2.028	-1.091	-.878
21	-2.096	-1.832	-1.181	-1.248	-2.070	-.951	-.740
22	-1.895	-1.237	-.694	-1.054	-1.151	-1.011	-1.160
23	-1.606	-.527	-.416	-.541	-.463	-.475	-.573
24	-1.194	-.353	-.375	-.391	-.169	-.238	-.162
25	-.185	-1.901	-3.462	.957	.796	.508	-.263
26	1.006	.698	.286	-.147	*000.000	-.032	.009
27	.769	1.047	1.025	.117	-.295	-.064	.020
28	.228	.773	.947	.907	.978	.123	.240
29	-.141	.614	.784	.759	.667	.420	.239
30	-.286	.802	.829	.907	.797	.788	-.129
31	.175	1.089	1.120	1.251	1.329	1.211	-.162
32	.360	.979	.809	1.073	1.158	1.010	.500
33	.328	.712	.592	.901	.918	.577	.179

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.965	-5.381	-6.570	1.059	1.242	1.033	-.727
2	-4.114	-6.199	-7.112	.659	.962	.864	-.760
3	-3.979	-5.990	-6.466	.412	.664	.638	-.980
4	-3.872	-5.452	-5.687	.123	.301	.249	-.733
5	-2.939	-4.062	-3.244	-.167	-.179	-.248	-1.029
6	*000.000	*000.000	*000.000	.053	-.055	-.063	-.181
7	*000.000	*000.000	*000.000	-.417	-.071	.278	-.198
8	*000.000	*000.000	*000.000	-1.426	-1.201	-.861	-.631
9	*000.000	*000.000	*000.000	-2.664	-2.360	-1.445	-.638
10	-1.872	-2.424	-2.219	-2.268	-1.810	-1.093	-.415
11	-1.504	-1.739	*000.000	-1.565	-1.248	-.581	-.237
12	-1.109	-1.081	-.837	-.939	-.680	-.280	-.269
13	-1.638	-1.222	-1.019	-1.015	-.714	-.293	-.226
14	-1.728	-1.195	-.970	-.979	-.689	-.315	-.191
15	-1.318	-.466	-.186	-.246	-.102	.151	-.264
16	-2.594	-2.435	-1.906	-2.258	-1.623	-.831	-.703
17	-3.915	-3.217	-2.324	-3.170	-2.608	-.946	-.791
18	-3.479	-2.960	-2.426	-3.237	-2.481	-1.186	-.729
19	-3.136	-3.037	-2.353	-3.505	-2.255	-1.068	-.697
20	-2.242	-2.168	-1.844	-2.869	-2.124	-.539	-.504
21	-1.949	-1.543	-1.263	-2.147	-1.821	-.839	-.844
22	-1.849	-1.137	-.861	-1.256	-.984	-.665	-.743
23	-1.384	-.532	-.504	-.414	-.480	-.451	-.579
24	-.921	-.429	-.477	-.098	-.142	-.150	-.226
25	-.694	-2.356	-3.770	.951	.876	.339	-.542
26	.777	.635	.209	-.214	*000.000	-.099	-.066
27	.661	1.001	.875	.090	-.247	-.050	-.089
28	.225	.772	.904	.815	.786	.011	.190
29	-.141	.541	.690	.663	.604	.293	.170
30	-.365	.824	.769	.924	.801	.697	-.098
31	.170	1.053	.940	1.112	1.161	.973	-.092
32	.371	.983	.725	1.081	1.167	.894	.139
33	.248	.639	.634	.868	.842	.476	.062

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.802	-5.757	-6.601	1.041	1.214	.703	-.705
2	-4.968	-6.780	-7.288	.544	.854	.636	-.855
3	-4.848	-6.583	-6.944	.303	.562	.596	-.769
4	-1.430	-.793	-.419	.041	-.044	-.032	-.107
5	-3.597	-4.625	-3.482	-.264	-.164	-.219	-.759
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	-.461	-.070	.337	-.064
8	*000.000	*000.000	*000.000	-1.610	-1.343	-.634	-.530
9	*000.000	*000.000	*000.000	-2.744	-2.303	-1.284	-.317
10	-1.996	-2.625	-2.350	-2.420	-1.760	-.836	-.312
11	-1.522	-1.817	*000.000	-1.604	-1.226	-.470	-.190
12	-1.305	-1.244	-.978	-1.049	-.745	-.339	-.119
13	-1.697	-1.301	-1.126	-1.064	-.841	-.540	-.237
14	-1.609	-1.217	-1.023	-1.032	-.711	-.291	-.163
15	-1.214	-.488	-.174	-.224	.014	.107	-.098
16	-2.356	-2.396	-1.963	-2.144	-1.489	-.761	-.442
17	-3.194	-2.872	-2.354	-2.972	-1.884	-.801	-.437
18	-3.043	-2.769	-2.506	-2.913	-1.947	-.885	-.459
19	-2.926	-2.871	-2.561	-3.362	-2.067	-1.067	-1.160
20	-2.514	-2.102	-1.907	-2.912	-1.948	-.914	-.974
21	-2.224	-1.558	-1.439	-1.944	-1.169	-.849	-.778
22	-1.657	-1.064	-.842	-1.330	-1.082	-.753	-.679
23	-1.261	-.457	-.401	-.326	-.432	-.376	-.374
24	-.836	-.417	-.533	-.188	-.131	-.220	-.154
25	-1.547	-2.621	-3.715	.972	.827	.250	-.383
26	.547	.676	.232	-.340	*000.000	-.052	-.001
27	.509	1.093	.958	.118	-.318	-.046	-.045
28	.122	.727	.854	.794	.806	.089	.150
29	-.203	.512	.661	.632	.541	.280	.191
30	-.243	.822	.715	.873	.673	.534	-.066
31	.156	1.131	.868	1.173	1.175	.931	-.021
32	.291	.911	.707	1.069	1.115	.718	.239
33	.192	.546	.577	.814	.775	.398	.089

Table 25. - Continued.

(b) $C_{T,S} = 0.80$, $q_S = 20.03$

$\alpha = 60°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-4.672	-6.116	-6.312	.965	1.208	.343	-.911
2	-5.552	-7.241	-7.329	.495	.798	.430	-.784
3	-4.998	-6.651	-6.288	.463	.569	.367	-.694
4	-4.273	-5.664	-5.247	-.091	.149	.038	-.837
5	-3.349	-4.650	-3.291	-.322	-.173	-.194	-.626
6	*000.000	*000.000	*000.000	-.008	-.047	-.065	-.093
7	*000.000	*000.000	*000.000	-.654	-.217	.381	-.214
8	*000.000	*000.000	*000.000	-1.544	-1.069	-.459	-.394
9	*000.000	*000.000	*000.000	-2.774	-2.211	-1.203	-.456
10	-1.870	-2.664	-2.273	-2.362	-1.624	-.835	-.353
11	-1.385	-1.832	*000.000	-1.572	-1.020	-.485	-.337
12	-1.337	-1.302	-1.043	-1.088	-.637	-.275	-.216
13	-1.399	-1.174	-1.023	-.975	-.609	-.269	-.238
14	-1.203	-.407	-.236	-.234	-.015	.145	-.140
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	-2.014	-2.209	-1.936	-1.995	-1.365	-.870	-.674
17	-2.566	-2.664	-2.338	-2.954	-2.310	-.960	-.729
18	-2.685	-2.622	-2.478	-3.146	-2.321	-1.270	-.987
19	-2.525	-2.586	-2.584	-2.925	-1.775	-1.203	-.743
20	-1.913	-1.867	-1.950	-2.560	-1.628	-1.280	-.989
21	-1.510	-1.411	-1.511	-1.863	-1.131	-.631	-.618
22	-1.307	-.815	-.805	-1.065	-.832	-.667	-.744
23	-.969	-.458	-.474	-.451	-.428	-.480	-.421
24	-.633	-.464	-.574	-.177	-.147	-.199	-.231
25	-2.434	-2.680	-3.478	.942	.862	.183	-.564
26	.106	.531	.269	-.321	*000.000	-.049	-.064
27	.348	1.036	.927	.157	-.171	-.082	-.015
28	.106	.687	.853	.782	.695	.107	.106
29	-.193	.436	.602	.580	.499	.201	.108
30	-.306	.787	.687	.842	.658	.446	-.094
31	.243	1.110	.833	1.157	1.237	.845	-.036
32	.334	.830	.706	1.070	1.133	.908	.183
33	.176	.333	.537	.761	.692	.313	.056

$\alpha = 65°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-5.297	-6.861	-6.596	1.007	1.179	.240	-.410
2	-5.903	-7.830	-7.271	.487	.797	.444	-.497
3	-5.124	-7.248	-6.680	.248	.461	.074	-.642
4	-2.041	-.920	-.432	.016	-.020	.062	-.159
5	-3.300	-4.976	-3.386	-.332	-.256	-.234	-.676
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	-.526	-.015	.447	-.133
8	*000.000	*000.000	*000.000	-1.592	-1.031	-.245	-.223
9	*000.000	*000.000	*000.000	-2.662	-1.908	-.777	-.459
10	-1.707	-2.752	-2.274	-2.421	-1.600	-.719	-.408
11	-1.224	-1.740	*000.000	-1.553	-.928	-.216	-.218
12	-1.187	-1.201	-.977	-.955	-.562	-.143	-.159
13	-1.310	-1.123	-1.026	-.906	-.596	-.274	-.221
14	-1.411	-1.152	-1.099	-.789	-.435	-.206	-.233
15	-1.005	-.375	-.286	-.179	.018	.046	-.187
16	-1.815	-2.052	-1.934	-1.694	-1.223	-.750	-.716
17	-2.230	-2.497	-2.449	-2.268	-1.640	-.958	-.762
18	-1.635	-2.253	-2.455	-1.984	-1.101	-.749	-.575
19	-2.076	-2.224	-2.470	-2.824	-1.679	-1.318	-1.130
20	-1.408	-1.768	-2.179	-1.845	-1.620	-.986	-.908
21	-1.392	-1.317	-1.622	-1.613	-.837	-.704	-.785
22	-.957	-.592	-.766	-1.019	-.732	-.695	-.796
23	-.862	-.476	-.501	-.358	-.421	-.443	-.468
24	-.591	-.456	-.456	-.138	-.169	-.158	-.190
25	-3.619	-3.361	-3.803	1.030	.842	-.003	-.536
26	-.329	.391	.339	-.288	*000.000	.004	-.038
27	-.012	.875	.870	.051	-.323	-.063	-.056
28	.091	.675	.877	.815	.604	.145	.146
29	-.220	.322	.500	.558	.465	.239	.130
30	-.328	.857	.653	.842	.641	.557	-.167
31	.171	1.029	.679	1.111	1.105	.796	-.162
32	.326	.654	.701	1.026	1.010	.678	.145
33	.062	.270	.602	.757	.660	.399	.085

$\alpha = 70°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-5.829	-7.393	-6.679	1.010	1.215	.140	-.146
2	-5.405	-8.037	-7.324	.461	.772	.190	-.191
3	-5.309	-7.616	-6.569	.311	.650	.175	-.169
4	-4.102	-6.504	-5.592	-.194	.179	.382	-.179
5	-2.728	-4.795	-3.079	-.387	-.152	.159	-.269
6	*000.000	*000.000	*000.000	-.053	-.031	.053	.024
7	*000.000	*000.000	*000.000	-.581	-.069	.220	-.144
8	*000.000	*000.000	*000.000	-1.680	-.979	-.250	-.222
9	*000.000	*000.000	*000.000	-2.638	-1.615	-.501	-.284
10	-1.444	-2.471	-1.940	-2.136	-1.214	-.383	-.292
11	-1.062	-1.501	*000.000	-1.468	-.771	-.261	-.136
12	-1.204	-1.111	-.882	-.763	-.394	-.090	-.112
13	-1.195	-1.015	-.972	-.784	-.401	-.119	-.033
14	-1.043	-.377	-.200	.088	.222	.140	-.129
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	-1.759	-1.773	-1.607	-1.102	-.772	-.370	-.197
17	-1.897	-2.140	-2.153	-1.477	-1.363	-.761	-.537
18	-1.567	-2.000	-2.357	-2.094	-1.153	-.749	-.760
19	-1.564	-1.845	-2.171	-1.206	-.818	-.707	-.644
20	-1.341	-1.581	-2.057	-1.404	-.907	-.695	-.635
21	-1.082	-1.248	-1.676	-1.043	-.669	-.518	-.587
22	-1.028	-.769	-1.126	-.801	-.614	-.509	-.524
23	-.628	-.378	-.386	-.350	-.384	-.338	-.331
24	-.462	-.281	-.215	-.259	-.189	-.145	-.118
25	-4.204	-3.922	-3.624	.951	.793	.015	-.080
26	-.871	.051	.256	-.309	*000.000	.008	.012
27	-.333	.552	.934	.118	-.179	.089	.024
28	-.014	.473	.797	.733	.523	.069	.156
29	-.146	.275	.533	.541	.472	.288	.209
30	-.438	.708	.572	.832	.614	.443	-.021
31	.205	.881	.689	1.157	1.172	.777	-.092
32	.229	.653	.719	1.058	1.038	.684	.111
33	.032	.316	.632	.763	.624	.321	.156

$\alpha = 75°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-2.841	-3.268	-3.862	1.031	1.126	-.036	-.051
2	-2.244	-3.415	-4.535	.633	.924	.161	-.203
3	-1.241	-2.994	-3.664	.405	.647	.005	-.182
4	-1.328	-2.090	-2.350	-.041	.330	.228	-.295
5	-1.949	-2.793	-2.641	-.343	-.133	-.018	-.179
6	*000.000	*000.000	*000.000	-.075	-.115	.016	-.063
7	*000.000	*000.000	*000.000	-.524	.218	.111	-.197
8	*000.000	*000.000	*000.000	-1.660	-1.115	-.295	-.289
9	*000.000	*000.000	*000.000	-2.486	-1.390	-.196	-.108
10	-1.412	-2.426	-2.010	-2.228	-.957	-.249	-.262
11	-1.114	-1.559	*000.000	-1.427	-.739	-.299	-.198
12	-1.206	-1.089	-.972	-.886	-.559	-.248	-.270
13	-1.061	-.951	-.805	-.678	-.384	-.206	-.193
14	-1.060	-.926	-.992	-.651	-.463	-.302	-.299
15	-.938	-.418	-.247	.033	.073	.104	-.114
16	-1.294	-1.550	-1.741	-1.747	-1.369	-1.035	-.714
17	-1.462	-2.135	-2.636	-1.949	-1.552	-1.353	-.871
18	-1.228	-1.810	-2.019	-1.236	-1.074	-.804	-.583
19	-1.305	-1.862	-2.550	-1.740	-1.160	-.777	-.863
20	-1.072	-1.494	-2.110	-1.861	-1.651	-1.361	-.958
21	-.973	-1.265	-1.669	-1.162	-1.016	-.573	-.599
22	-.709	-.728	-.907	-.604	-.666	-.437	-.408
23	-.670	-.430	-.400	-.426	-.440	-.444	-.352
24	-.417	-.323	-.291	-.242	-.279	-.270	-.210
25	-4.316	-4.120	-3.325	.847	.431	-.266	-.244
26	-1.046	-.446	.281	-.262	*000.000	-.001	-.002
27	-.325	.357	.909	-.016	-.121	-.018	.054
28	-.110	.291	.695	.734	.214	.124	.205
29	-.202	.173	.376	.492	.366	.280	.220
30	-.412	.534	.390	.714	.420	.343	-.053
31	.163	.704	.596	1.158	.895	.504	-.027
32	.026	.578	.684	1.068	.903	.536	.157
33	-.110	.182	.550	.636	.536	.332	.045

Table 25.- Continued.

(c) $C_{T,S} = 0.60$, $q_s = 21.61$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.832	.466	.032	.016	.721	.822	.767
2	.159	-.312	-.562	.606	1.212	1.245	1.005
3	-.050	-.636	-.821	.629	1.223	1.195	.933
4	-.439	-1.019	-1.150	.791	1.113	1.047	.717
5	-.727	-1.308	-1.296	.649	.813	.674	.462
6	*000.000	*000.000	*000.000	-.176	-.025	.025	-.022
7	*000.000	*000.000	*000.000	.390	.597	.558	.382
8	*000.000	*000.000	*000.000	-.261	-.362	-.459	-.451
9	*000.000	*000.000	*000.000	-1.224	-1.319	-1.310	-1.111
10	-.691	-1.167	-1.283	-1.186	-1.110	-1.088	-.902
11	-.725	-1.172	*000.000	-1.072	-1.139	-.967	-.792
12	-1.202	-.952	-.968	-.851	-.859	-.703	-.536
13	-.750	-.992	-.996	-.711	-.715	-.579	-.395
14	-.835	-.938	-.895	-.637	-.571	-.471	-.305
15	-.347	-.044	-.240	-.023	-.119	-.053	-.096
16	-1.816	-2.020	-1.875	-.894	-.831	-.696	-.544
17	-2.696	-3.003	-2.386	-1.258	-1.174	-.808	-.646
18	-2.947	-3.039	-2.636	-1.518	-1.274	-1.088	-.954
19	-3.117	-2.995	-2.842	-1.159	-.727	-.942	-.790
20	-2.771	-2.093	-1.867	-.679	-.346	-.265	-.217
21	-2.311	-1.272	-1.101	-.420	-.263	-.256	-.254
22	-1.873	-.524	-.386	-.314	-.251	-.282	-.251
23	-.997	-.435	-.524	-.306	-.258	-.267	-.274
24	-.872	-.395	-.315	-.289	-.194	-.243	-.252
25	.995	1.055	.401	-.352	-.034	.081	.073
26	.566	.911	.560	-.238	*000.000	-.019	.177
27	.053	.407	.345	.094	.034	.074	-.069
28	.040	.251	.336	.074	.029	.061	.034
29	.180	.444	.340	.133	.028	.103	.134
30	.318	.792	.482	.146	.104	.141	.012
31	.813	1.134	.950	.080	.164	.033	-.005
32	.768	1.042	.793	.408	.179	.159	.268
33	.556	.756	.612	.759	.296	.189	.394

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.491	-.254	-1.304	.399	1.067	1.108	.941
2	-.342	-1.241	-1.758	.777	1.293	1.243	.905
3	-.694	-1.708	-2.084	.687	1.217	1.118	.684
4	-.995	-1.925	-2.110	.518	.899	.830	.447
5	-1.109	-1.901	-1.851	.498	.522	.392	.121
6	*000.000	*000.000	*000.000	.084	.179	.131	.054
7	*000.000	*000.000	*000.000	.235	.487	.296	.001
8	*000.000	*000.000	*000.000	-.613	-.784	-.769	-.785
9	*000.000	*000.000	*000.000	-1.648	-2.099	-2.096	-1.887
10	-.916	-1.476	-1.572	-1.495	-1.563	-1.523	-1.333
11	-.832	-1.307	*000.000	-1.255	-1.331	-1.188	-.974
12	-1.269	-.978	-.949	-.855	-.923	-.765	-.576
13	-.806	-.979	-.927	-.750	-.739	-.654	-.474
14	-1.103	-1.164	-1.062	-.775	-.781	-.662	-.538
15	-.552	-.163	-.283	-.093	-.038	.026	-.054
16	-2.220	-2.263	-1.847	-1.328	-1.231	-1.313	-1.043
17	-3.298	-3.246	-2.726	-1.845	-1.664	-1.724	-1.368
18	-3.685	-3.292	-2.962	-1.851	-1.881	-1.967	-1.400
19	-3.817	-3.579	-3.265	-1.809	-1.572	-1.763	-1.422
20	-2.801	-2.290	-2.047	-.702	-.736	-.787	-.974
21	-2.470	-1.404	-1.196	-.465	-.482	-.534	-.719
22	-1.651	-.689	-.833	-.406	-.252	-.330	-.503
23	-1.205	-.623	-.459	-.329	-.305	-.321	-.263
24	-.964	-.489	-.419	-.282	-.228	-.297	-.371
25	.985	.847	-.096	.029	.265	.250	.265
26	.782	1.024	.529	.001	*000.000	.108	.142
27	.350	.702	.617	.040	.070	.089	.014
28	.121	.379	.485	.197	.044	.073	.081
29	.174	.549	.502	.436	.305	.267	.327
30	.296	.812	.588	.501	.415	.417	.143
31	.631	1.023	.885	.667	.532	.395	.193
32	.679	.959	.736	.578	.589	.802	.759
33	.525	.744	.594	.765	.662	.644	.587

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.056	-1.322	-2.614	.682	1.198	1.230	.945
2	-.902	-2.262	-2.978	.539	1.171	1.070	.683
3	-1.238	-2.563	-3.022	.440	1.050	.919	.534
4	-1.302	-2.501	-2.910	.417	.705	.558	.171
5	-1.445	-2.499	-2.536	.205	.277	.107	-.129
6	*000.000	*000.000	*000.000	-.040	.118	.069	0.
7	*000.000	*000.000	*000.000	.089	-.011	-.216	-.379
8	*000.000	*000.000	*000.000	-.841	-1.058	-1.147	-1.167
9	*000.000	*000.000	*000.000	-1.937	-2.311	-2.300	-2.048
10	-1.018	-1.630	-1.728	-1.658	-1.718	-1.684	-1.464
11	-1.011	-1.577	*000.000	-1.542	-1.600	-1.452	-1.139
12	-1.456	-1.112	-1.058	-1.023	-1.112	-.986	-.737
13	-1.036	-1.153	-1.045	-.863	-.903	-.815	-.637
14	-1.453	-1.284	-1.085	-.846	-.900	-.775	-.593
15	-.856	-.338	-.344	-.080	-.159	-.116	-.173
16	-2.473	-2.447	-1.888	-1.673	-1.817	-1.766	-1.162
17	-3.721	-3.900	-3.037	-2.355	-2.196	-2.205	-1.667
18	-4.272	-3.884	-3.217	-2.761	-2.338	-2.907	-2.035
19	-4.012	-3.993	-3.348	-2.716	-2.288	-2.520	-1.585
20	-2.981	-2.950	-2.637	-1.775	-.906	-1.508	-1.390
21	-2.558	-2.039	-1.777	-.575	-.616	-.598	-.817
22	-1.681	-1.238	-.913	-.450	-.343	-.517	-.616
23	-1.320	-.808	-.448	-.420	-.365	-.387	-.429
24	-1.052	-.645	-.333	-.367	-.307	-.367	-.416
25	.902	.346	-1.107	.408	.520	.439	.380
26	.935	1.030	.520	-.076	*000.000	.064	.107
27	.521	.867	.742	.189	.135	.095	-.107
28	.247	.589	.683	.636	.155	.122	.291
29	.175	.575	.571	.637	.631	.471	.471
30	.120	.790	.630	.691	.670	.580	.174
31	.496	.981	.874	.968	.752	.745	.081
32	.622	.952	.808	1.002	.959	.992	.733
33	.528	.773	.665	.936	.887	.709	.734

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.710	-2.636	-4.467	.812	1.322	1.295	.752
2	-1.675	-3.758	-5.043	.493	1.032	.942	.307
3	-1.976	-4.005	-5.061	.316	.826	.747	.101
4	-2.010	-3.565	-4.256	.103	.391	.310	-.205
5	-1.890	-3.205	-3.430	-.156	-.068	-.225	-.646
6	*000.000	*000.000	*000.000	.073	.047	.003	-.107
7	*000.000	*000.000	*000.000	-.464	-.448	-.530	-.753
8	*000.000	*000.000	*000.000	-1.375	-1.606	-1.649	-1.699
9	*000.000	*000.000	*000.000	-2.418	-2.925	-2.859	-2.625
10	-1.333	-2.038	-2.387	-2.223	-2.421	-2.351	-2.090
11	-1.120	-1.668	*000.000	-1.623	-1.818	-1.592	-1.313
12	-1.713	-1.229	-1.140	-1.158	-1.325	-1.082	-.814
13	-1.305	-1.257	-1.034	-1.001	-1.137	-.956	-.672
14	-1.112	-.363	-.291	-.069	-.217	-.139	-.154
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	-2.956	-2.912	-1.993	-2.026	-2.278	-2.056	-1.408
17	-4.018	-3.916	-2.429	-2.652	-2.883	-2.435	-1.662
18	-4.148	-3.887	-2.730	-2.777	-3.088	-3.202	-2.129
19	-3.619	-3.995	-2.540	-2.953	-2.947	-3.153	-1.820
20	-2.621	-3.501	-2.162	-2.026	-1.683	-2.023	-1.593
21	-2.455	-2.044	-1.263	-1.399	-.843	-1.262	-1.277
22	-1.940	-1.540	-.591	-.612	-.403	-.635	-.893
23	-1.343	-.813	-.398	-.385	-.434	-.410	-.550
24	-1.638	-.181	-.268	-.387	-.379	-.463	-.566
25	.639	-.388	-2.072	.721	.724	.747	.517
26	.986	.923	.344	-.288	*000.000	.043	.012
27	.644	.989	.855	.345	.029	.091	-.226
28	.288	.691	.775	.782	.279	.191	.597
29	.124	.609	.634	.746	.768	.643	.394
30	-.036	.759	.733	.854	.810	.817	.043
31	.515	.752	.693	.937	.927	.757	.476
32	.514	.936	.775	1.068	1.152	1.081	.782
33	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.241	-3.915	-5.874	.868	1.367	1.314	-.120
2	-2.435	-5.058	-6.546	.340	.880	.793	-.144
3	-2.561	-5.016	-6.193	.109	.532	.480	-.519
4	-2.653	-4.707	-5.469	-.145	.154	.029	-.781
5	-2.362	-3.803	-3.994	-.414	-.359	-.573	-1.214
6	*000.000	*000.000	*000.000	.121	.072	-.076	-.330
7	*000.000	*000.000	*000.000	-.916	-.776	-.856	-1.195
8	*000.000	*000.000	*000.000	-1.877	-1.962	-1.986	-2.039
9	*000.000	*000.000	*000.000	-2.926	-3.213	-3.038	-2.734
10	-1.487	-2.315	-2.624	-2.508	-2.507	-2.384	-1.994
11	-1.301	-1.809	*000.000	-1.711	-1.911	-1.630	-1.264
12	-1.682	-1.317	-1.189	-1.226	-1.288	-.973	-.982
13	-1.459	-1.304	-1.099	-.989	-1.108	-.899	-.800
14	-2.126	-1.397	-1.097	-.978	-1.242	-1.054	-.943
15	-1.394	-.407	-.277	-.047	-.244	-.244	-.227
16	-3.071	-2.919	-1.991	-1.980	-2.468	-2.365	-1.343
17	-3.569	-3.912	-2.404	-2.519	-2.882	-1.712	-.902
18	-3.349	-4.136	-2.684	-3.014	-2.501	-1.843	-1.320
19	-3.186	-4.406	-2.585	-3.041	-3.678	-2.172	-1.630
20	-2.511	-3.542	-1.657	-2.211	-2.222	-2.248	-1.669
21	-2.295	-2.462	-.976	-1.063	-1.396	-1.717	-1.241
22	-2.062	-1.344	-.662	-.396	-.386	-.741	-.831
23	-1.680	-.815	-.404	-.337	-.382	-.476	-.596
24	-1.450	-.524	-.359	-.305	-.217	-.269	-.349
25	.344	-1.253	-3.223	1.051	1.056	.950	.196
26	1.012	.835	.316	-.235	*000.000	-.063	.015
27	.765	1.049	.893	.688	-.020	.063	-.206
28	.375	.798	.868	.873	1.180	.535	.525
29	.110	.666	.704	.803	.825	.666	.348
30	-.105	.818	.804	1.009	.998	.920	-.121
31	.300	1.039	1.039	1.199	1.306	1.231	.218
32	.516	.978	.855	1.170	1.235	1.126	.574
33	.444	.754	.699	.904	.951	.776	.286

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.911	-5.075	-6.860	.927	1.333	1.332	-.311
2	-2.948	-5.804	-7.102	.248	.746	.703	-.472
3	-3.204	-5.944	-6.915	.168	.497	.505	-.695
4	-3.100	-5.340	-6.052	-.334	-.009	-.092	-.984
5	-2.553	-4.111	-4.065	-.491	-.401	-.352	-.874
6	*000.000	*000.000	*000.000	.110	.056	.008	-.129
7	*000.000	*000.000	*000.000	-.955	-.736	-.665	-1.001
8	*000.000	*000.000	*000.000	-1.937	-1.854	-1.435	-1.202
9	*000.000	*000.000	*000.000	-2.973	-2.944	-2.318	-1.382
10	-1.683	-2.486	-2.702	-2.634	-2.324	-1.754	-.918
11	-1.302	-1.739	*000.000	-1.613	-1.450	-.767	-.643
12	-1.636	-1.313	-1.111	-.965	-.738	-.787	-.738
13	-1.747	-1.331	-1.080	-.702	-.577	-.709	-.704
14	-2.511	-1.463	-1.215	-.688	-.696	-.739	-.470
15	-1.609	-.488	-.191	.017	-.102	-.074	-.183
16	-3.193	-2.941	-2.177	-1.750	-1.550	-1.467	-.902
17	-3.747	-4.045	-2.721	-1.624	-1.137	-1.030	-.826
18	-3.818	-4.484	-2.985	-1.526	-1.378	-1.217	-1.036
19	-3.314	-4.088	-2.709	-1.802	-1.149	-1.205	-.759
20	-2.548	-3.147	-2.180	-1.020	-.839	-.806	-.568
21	-2.608	-2.609	-1.670	-1.130	-.788	-.687	-.664
22	-2.216	-1.433	-1.060	-.677	-.583	-.631	-.633
23	-1.772	-.733	-.409	-.540	-.591	-.475	-.468
24	-1.564	-.272	-.287	-.392	-.471	-.455	-.508
25	-.073	-2.077	-3.822	1.162	1.118	.989	-.021
26	.872	.580	.119	-.246	*000.000	.002	.062
27	.826	1.055	.885	.875	-.094	.104	-.011
28	.365	.842	.914	.902	1.068	.988	.350
29	.071	.767	.849	.868	.858	.686	.444
30	-.276	.823	.823	1.050	.959	.890	-.057
31	.382	.838	.799	.991	1.004	.718	.109
32	.382	.954	.781	1.139	1.153	1.063	.624
33	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000

Table 25.- Continued.

(c) $C_{T,s} = 0.60$, $q_s = 21.61$

$\alpha = 35°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-2.484	-5.808	-7.378	.846	1.238	1.204	-.588
2	-3.477	-6.635	-7.921	.162	.631	.598	-.854
3	-3.847	-6.609	-7.354	.059	.359	.312	-.899
4	-.896	-.608	-.347	.110	.074	.049	-.073
5	-2.735	-4.343	-3.970	-.579	-.515	-.524	-.968
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	-.965	-.624	-.468	-.688
8	*000.000	*000.000	*000.000	-2.204	-1.921	-1.392	-1.146
9	*000.000	*000.000	*000.000	-3.394	-3.155	-2.234	-1.012
10	-1.628	-2.391	-2.400	-2.525	-2.043	-1.229	-.504
11	-1.364	-1.717	*000.000	-1.373	-.606	-.413	-.378
12	-1.469	-1.228	-1.040	-.670	-.502	-.595	-.486
13	-1.904	-1.254	-1.047	-.561	-.609	-.648	-.646
14	-2.123	-1.318	-1.127	-.575	-.639	-.499	-.448
15	-1.665	-.526	-.275	.031	.005	-.007	-.310
16	-3.089	-2.508	-1.729	-1.024	-1.096	-1.243	-.987
17	-3.436	-3.302	-2.251	-1.060	-1.009	-.985	-.859
18	-3.128	-3.147	-2.227	-.837	-.839	-.935	-.820
19	-2.872	-3.960	-2.865	-1.077	-1.180	-.979	-.973
20	-2.714	-2.628	-1.984	-.781	-.906	-.858	-.957
21	-2.499	-1.847	-1.568	-.699	-.704	-.731	-.656
22	-2.122	-1.200	-1.169	-.536	-.544	-.627	-.544
23	-1.696	-.566	-.604	-.507	-.537	-.577	-.552
24	-1.167	-.363	-.311	-.429	-.371	-.442	-.410
25	-.417	-2.822	-4.267	1.211	1.098	.869	.047
26	.948	.484	.036	-.250	*000.000	.143	.006
27	.893	1.027	.835	.864	-.079	.119	.154
28	.434	.883	.923	.917	1.096	.362	.387
29	.056	.674	.769	.789	.730	.513	.327
30	-.270	.916	.894	1.078	.943	.891	.002
31	.281	1.100	1.025	1.294	1.345	1.215	.071
32	.475	1.068	.924	1.228	1.289	1.120	.722
33	.454	.817	.727	.959	.926	.639	.193

$\alpha = 40°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-3.367	-7.139	-8.595	.781	1.146	1.045	-.947
2	-4.487	-8.229	-9.258	-.169	.366	.356	-1.145
3	-4.200	-7.389	-8.101	-.396	-.003	.053	-.993
4	-3.829	-6.199	-6.149	-.722	-.318	-.266	-.992
5	-3.095	-4.922	-3.971	-.850	-.723	-.665	-.961
6	*000.000	*000.000	*000.000	.175	.089	.106	-.041
7	*000.000	*000.000	*000.000	-1.016	-.660	-.329	-.608
8	*000.000	*000.000	*000.000	-2.132	-1.812	-1.209	-1.060
9	*000.000	*000.000	*000.000	-3.189	-2.733	-1.788	-.783
10	-1.889	-2.723	-2.778	-2.866	-2.116	-.953	-.410
11	-1.478	-1.736	*000.000	-1.543	-.707	-.512	-.400
12	-1.425	-1.169	-1.036	-.677	-.597	-.633	-.418
13	-1.800	-1.094	-.926	-.516	-.599	-.579	-.500
14	-1.486	-.519	-.073	.088	.087	.049	-.282
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	-2.573	-2.118	-1.559	-1.171	-1.191	-1.152	-.901
17	-2.926	-2.955	-2.213	-1.412	-1.413	-.849	-.755
18	-2.648	-2.705	-2.256	-1.283	-1.233	-.922	-.805
19	-2.736	-2.829	-2.436	-1.920	-1.208	-.912	-.633
20	-2.252	-2.159	-1.854	-.752	-.867	-.874	-.854
21	-1.956	-1.617	-1.140	-.700	-.734	-.709	-.722
22	-1.907	-1.166	-.937	-.617	-.585	-.602	-.631
23	-1.378	-.730	-.572	-.546	-.458	-.474	-.510
24	-.991	-.401	-.464	-.485	-.401	-.408	-.459
25	-.914	-3.746	-5.352	1.370	1.212	.961	-.085
26	.826	.270	-.197	-.216	*000.000	.044	-.016
27	.909	1.024	.792	1.014	.095	.108	.067
28	.412	.928	.963	1.017	.994	.542	.389
29	.035	.746	.821	.825	.723	.508	.284
30	-.410	.932	.889	1.029	.883	.820	-.129
31	.230	1.096	.989	1.224	1.261	1.165	.031
32	.458	1.079	.944	1.209	1.222	1.106	.548
33	.398	.759	.723	.944	.911	.639	.145

$\alpha = 45°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-4.365	-8.716	-10.049	.608	1.054	.859	-1.090
2	-5.250	-9.027	-9.794	-.456	.116	.159	-1.054
3	-4.750	-8.064	-8.691	-.789	-.352	-.195	-.983
4	-4.556	-7.320	-7.344	-1.288	-.754	-.627	-.784
5	-3.342	-5.363	-4.078	-1.142	-.912	-.735	-.558
6	*000.000	*000.000	*000.000	.134	.165	.089	-.072
7	*000.000	*000.000	*000.000	-1.320	-.813	-.364	-.480
8	*000.000	*000.000	*000.000	-2.801	-2.257	-1.262	-.761
9	*000.000	*000.000	*000.000	-3.992	-3.527	-2.148	-.895
10	-1.837	-2.741	-2.868	-3.089	-2.187	-1.130	-.424
11	-1.489	-1.940	*000.000	-2.036	-1.505	-.644	-.291
12	-2.132	-1.412	-1.205	-1.287	-.915	-.580	-.410
13	-1.547	-1.321	-1.192	-1.016	-1.044	-.580	-.481
14	-1.696	-1.262	-1.102	-.828	-.838	-.519	-.405
15	-1.333	-.480	-.127	-.066	-.123	.085	-.110
16	-2.277	-2.571	-1.957	-1.716	-1.597	-.891	-.510
17	-2.489	-3.046	-2.538	-2.102	-1.697	-.976	-.865
18	-1.802	-3.029	-2.765	-1.562	-1.200	-.777	-.702
19	-1.979	-2.605	-2.323	-1.247	-1.238	-.877	-.638
20	-1.906	-2.303	-2.304	-2.377	-1.547	-.827	-1.026
21	-1.442	-1.525	-1.522	-.896	-.857	-.601	-.741
22	-1.568	-1.135	-.928	-1.096	-.935	-.746	-.900
23	-1.458	-.696	-.515	-.494	-.550	-.493	-.494
24	-.987	-.461	-.293	-.399	-.464	-.459	-.518
25	-1.619	-4.494	-5.905	1.247	1.252	.616	-.574
26	.846	.201	-.365	-.067	*000.000	.159	-.045
27	.930	1.008	.683	1.128	.231	.181	.309
28	.488	1.009	1.063	.914	.989	.543	.373
29	.104	.734	.843	.825	.718	.490	.423
30	-.251	.928	.895	.984	.860	.721	-.122
31	.281	1.116	.967	1.175	1.220	1.067	.070
32	.460	.990	.858	1.135	1.152	.959	.558
33	.352	.568	.672	.907	.855	.524	.163

$\alpha = 50°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-3.614	-4.922	-4.927	.459	.935	.482	-1.282
2	-4.146	-4.491	-4.244	-.685	-.091	-.135	-1.374
3	-3.911	-4.055	-3.481	-.935	-.444	-.265	-1.057
4	-3.379	-2.037	-1.270	-1.250	-.785	-.618	-.695
5	-2.262	-1.194	-.986	-1.131	-.981	-.839	-.584
6	*000.000	*000.000	*000.000	.137	.096	.022	-.127
7	*000.000	*000.000	*000.000	-1.509	-.934	-.347	-.379
8	*000.000	*000.000	*000.000	-2.612	-2.377	-1.465	-.764
9	*000.000	*000.000	*000.000	-3.795	-3.352	-1.800	-.667
10	-.950	-.971	-.924	-2.898	-2.142	-1.017	-.402
11	-1.000	-1.054	*000.000	-1.697	-1.068	-.605	-.322
12	-.919	-1.144	-.964	-.974	-.746	-.459	-.338
13	-1.075	-1.183	-1.174	-.860	-.723	-.376	-.344
14	-.815	-.520	-.140	-.168	-.135	.125	-.191
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	-1.175	-1.567	-1.306	-2.084	-1.674	-.935	-.527
17	-1.566	-1.807	-1.577	-2.768	-1.754	-.844	-.730
18	-1.577	-1.768	-1.304	-3.398	-2.496	-1.181	-.813
19	-1.112	-1.284	-1.177	-2.990	-1.839	-.825	-.658
20	-.969	-.973	-.942	-1.631	-1.005	-.715	-.763
21	-.884	-.850	-.877	-1.537	-1.296	-.754	-.921
22	-.805	-.676	-.617	-.782	-.691	-.636	-.836
23	-.683	-.647	-.619	-.540	-.546	-.582	-.617
24	-.661	-.608	-.466	-.157	-.231	-.302	-.299
25	-1.261	-2.413	-3.035	1.189	1.239	.182	-.702
26	.640	.475	.201	.093	*000.000	.182	.035
27	.721	1.059	.879	1.285	.411	.315	.268
28	.326	.918	.996	.936	.958	.472	.371
29	.069	.695	.847	.865	.752	.517	.445
30	-.064	.929	.788	.975	.752	.653	-.071
31	.401	1.088	.905	1.260	1.267	1.032	.194
32	.570	1.099	.894	1.323	1.269	1.009	.464
33	.360	.437	.666	1.001	.872	.479	.033

Table 25.- Continued.

(d) $C_{T,S} = 0.30$, $q_s = 19.06$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.823	.634	.181	.533	1.142	1.025	1.016
2	.037	-.489	-.866	.635	1.267	1.155	1.039
3	-.228	-.813	-1.131	.707	1.174	1.042	.924
4	-.595	-1.249	-1.648	.485	.901	.715	.652
5	-.943	-1.650	-1.890	.163	.478	.373	.300
6	*000.000	*000.000	*000.000	.107	.166	0.	.060
7	*000.000	*000.000	*000.000	-.171	.368	.413	.327
8	*000.000	*000.000	*000.000	-1.094	-.982	-.952	-.890
9	*000.000	*000.000	*000.000	-2.300	-2.277	-2.178	-1.897
10	-1.020	-1.524	-1.932	-2.143	-1.939	-1.795	-1.568
11	-1.125	-1.651	*000.000	-1.779	-1.814	-1.657	-1.376
12	-1.571	-1.168	-1.164	-1.108	-1.151	-1.005	-.753
13	-.871	-1.106	-1.087	-.861	-.836	-.780	-.549
14	-1.110	-1.137	-1.089	-.759	-.823	-.751	-.579
15	-.626	-.122	-.343	-.051	-.208	-.303	-.228
16	-2.284	-2.435	-2.191	-1.066	-1.020	-1.476	-1.099
17	-3.272	-3.361	-3.157	-1.473	-1.409	-1.382	-1.189
18	-4.039	-3.751	-3.406	-1.802	-1.312	-1.588	-1.451
19	-4.313	-4.045	-3.912	-1.435	-1.232	-1.688	-1.464
20	.266	.829	.589	.271	.341	.225	-.027
21	-2.471	-1.420	-1.514	-.476	-.490	-.645	-.769
22	-1.686	-.619	-.698	-.388	-.332	-.426	-.489
23	-1.192	-.598	-.718	-.540	-.317	-.371	-.346
24	-1.052	-.641	-.422	-.382	-.316	-.378	-.394
25	.878	1.044	.589	.074	.245	.117	.175
26	.533	.884	.647	.085	*000.000	.067	.471
27	-.015	.266	.201	-.061	.034	-.018	.001
28	-.003	.214	.257	.169	.104	.042	.090
29	.107	.443	.377	.241	.218	.187	.270
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	.454	.693	.655	.393	.390	.608	.835
32	.719	1.031	.903	.495	.385	.409	.778
33	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.306	-.397	-1.178	.729	1.233	1.220	1.096
2	-.779	-1.717	-2.314	.514	1.219	1.125	.920
3	-.897	-2.017	-2.446	.351	.992	.972	.736
4	-1.233	-2.188	-2.665	.102	.634	.539	.334
5	-1.309	-2.168	-2.514	-.115	.171	.077	-.005
6	*000.000	*000.000	*000.000	-.009	.118	.051	.038
7	*000.000	*000.000	*000.000	-.581	-.319	-.315	-.267
8	*000.000	*000.000	*000.000	-1.784	-1.671	-1.482	-1.413
9	*000.000	*000.000	*000.000	-2.778	-2.870	-2.591	-2.386
10	-1.116	-1.738	-2.098	-2.472	-2.260	-2.075	-1.861
11	-1.113	-1.608	*000.000	-1.743	-1.807	-1.607	-1.387
12	-1.842	-1.369	-1.335	-1.311	-1.407	-1.182	-.935
13	-1.027	-1.278	-1.152	-.980	-1.048	-.933	-.678
14	-.917	-.156	-.438	-.176	-.144	-.132	-.105
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	-2.667	-2.832	-2.227	-1.417	-1.542	-1.631	-1.270
17	-3.651	-4.025	-3.059	-2.075	-2.035	-2.028	-1.614
18	-4.236	-4.324	-3.771	-2.585	-2.409	-2.578	-1.857
19	-3.942	-4.223	-3.120	-2.128	-1.916	-2.293	-1.633
20	-3.728	-4.076	-2.612	-1.795	-1.217	-1.397	-1.361
21	-2.692	-2.580	-1.591	-.484	-.454	-.666	-.851
22	-1.783	-.922	-.786	-.388	-.383	-.482	-.767
23	-1.291	-.867	-.342	-.407	-.350	-.474	-.607
24	-1.341	-.821	-.400	-.453	-.405	-.614	-.600
25	.973	.819	-.003	.489	.626	.567	.625
26	.845	1.031	.576	.008	*000.000	.088	.405
27	.382	.709	.562	.056	.194	.173	.152
28	.136	.379	.412	.407	.165	.195	.303
29	.107	.493	.422	.560	.539	.567	.592
30	.146	.801	.604	.674	.554	.668	.187
31	.517	.845	.550	.681	.898	.859	.783
32	.599	.991	.779	.760	.820	.815	.786
33	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.518	-2.010	-3.500	.700	1.319	1.238	1.019
2	-1.521	-3.321	-4.304	.143	.972	.839	.573
3	-1.734	-3.312	-3.925	-.032	.689	.562	.338
4	-1.963	-3.391	-3.981	-.401	.134	-.031	-.209
5	-1.835	-3.020	-3.289	-.648	-.317	-.384	-.496
6	*000.000	*000.000	*000.000	-.096	.012	.015	.013
7	*000.000	*000.000	*000.000	-1.260	-.874	-.848	-1.006
8	*000.000	*000.000	*000.000	-2.300	-2.140	-2.086	-2.177
9	*000.000	*000.000	*000.000	-3.351	-3.442	-3.217	-3.056
10	-1.417	-2.132	-2.494	-2.958	-2.751	-2.571	-2.354
11	-1.237	-1.807	*000.000	-2.024	-2.196	-1.947	-1.703
12	-1.902	-1.347	-1.313	-1.378	-1.544	-1.295	-1.072
13	-1.172	-1.304	-1.136	-1.122	-1.256	-1.064	-.828
14	-1.752	-1.343	-1.120	-1.047	-1.200	-1.077	-.939
15	-1.096	-.246	-.364	-.136	-.335	-.356	-.314
16	-3.023	-2.807	-2.178	-2.038	-2.279	-2.277	-1.566
17	-3.438	-3.615	-2.323	-2.436	-2.765	-2.533	-1.701
18	-3.013	-4.078	-2.878	-2.923	-3.126	-2.806	-1.937
19	-2.760	-3.866	-2.949	-2.780	-3.019	-2.844	-1.708
20	-2.317	-3.225	-1.913	-2.132	-2.011	-2.214	-1.575
21	-2.042	-2.052	-.846	-1.213	-1.258	-1.416	-1.259
22	-1.778	-.939	-.595	-.527	-.403	-.763	-.965
23	-1.537	-.819	-.491	-.468	-.450	-.388	-.739
24	-1.165	-.721	-.351	-.395	-.333	-.544	-.573
25	.724	.226	-.925	.726	.851	.831	.811
26	.947	1.026	.425	-.276	*000.000	.102	.351
27	.580	.900	.667	.445	.123	.131	-.009
28	.288	.606	.678	.748	.528	.611	.767
29	.133	.591	.605	.741	.861	.795	.605
30	.044	.891	.853	1.033	.969	1.005	-.060
31	.429	1.051	.972	1.141	1.208	1.155	.801
32	.564	.990	.788	1.114	1.096	1.072	.933
33	.458	.816	.595	.879	.947	.898	.499

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.290	-3.519	-5.302	.606	1.263	1.087	.633
2	-2.542	-4.854	-6.260	-.275	.486	.298	.112
3	-2.531	-4.993	-6.223	-.624	.050	-.051	-.294
4	-2.459	-4.272	-5.132	-.821	-.362	-.575	-.744
5	-2.555	-4.208	-4.700	-1.221	-.964	-1.169	-1.290
6	*000.000	*000.000	*000.000	-.014	.058	-.001	-.012
7	*000.000	*000.000	*000.000	-1.633	-1.318	-1.397	-1.572
8	*000.000	*000.000	*000.000	-3.023	-2.906	-2.936	-3.030
9	*000.000	*000.000	*000.000	-4.320	-4.480	-4.234	-3.942
10	-1.574	-2.512	-3.024	-3.530	-3.321	-3.098	-2.692
11	-1.363	-2.074	*000.000	-2.281	-2.527	-2.225	-1.854
12	-1.991	-1.413	-1.377	-1.454	-1.703	-1.386	-1.029
13	-1.519	-1.336	-1.165	-1.133	-1.297	-1.120	-.894
14	-2.164	-1.489	-1.269	-1.216	-1.448	-1.271	-1.077
15	-1.241	-.330	-.278	-.172	-.327	-.366	-.359
16	-2.612	-2.856	-2.232	-2.149	-2.660	-2.483	-1.504
17	-3.080	-4.039	-2.735	-2.822	-3.273	-2.656	-1.733
18	-2.857	-3.901	-2.741	-2.892	-3.525	-2.795	-1.763
19	-2.388	-4.038	-2.726	-3.177	-3.298	-2.941	-1.587
20	-2.260	-3.180	-1.979	-2.411	-2.234	-2.247	-1.456
21	-2.028	-2.303	-1.131	-1.289	-1.159	-1.452	-1.214
22	-2.024	-1.145	-.751	-1.000	-.584	-.903	-.955
23	-1.498	-.780	-.425	-.358	-.422	-.674	-.893
24	-1.408	-.723	-.425	-.330	-.343	-.416	-.545
25	.314	-.927	-2.621	1.155	1.351	1.281	1.080
26	1.000	.914	.403	-.009	*000.000	-.330	.346
27	.805	1.060	.841	.957	.135	.287	.750
28	.461	.765	.852	.902	1.070	.905	.743
29	.150	.724	.737	.768	.809	.720	.637
30	-.005	.915	.958	1.165	1.049	.978	-.355
31	.400	1.066	.985	1.401	1.351	1.268	.694
32	.572	.994	.980	1.209	1.223	1.077	.975
33	.493	.742	.729	.962	.933	.785	.435

Table 25.- Concluded.

(d) $C_{T,S} = .0.30$, $q_S = 19.06$

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.584	-6.052	-8.135	.123	.939	.790	-.101
2	-3.604	-6.636	-8.069	-.915	-.072	-.286	-.860
3	-3.442	-6.176	-7.265	-1.084	-.418	-.543	-.966
4	-3.194	-5.478	-6.561	-1.393	-.950	-1.112	-1.384
5	-2.879	-4.660	-5.210	-1.497	-1.170	-1.191	-1.047
6	*000.000	*000.000	*000.000	.028	.051	-.058	-.188
7	*000.000	*000.000	*000.000	-2.008	-1.644	-1.681	-1.793
8	*000.000	*000.000	*000.000	-3.478	-3.367	-3.211	-3.229
9	*000.000	*000.000	*000.000	-5.009	-5.210	-4.793	-4.028
10	-1.886	-2.861	-3.483	-3.728	-3.542	-3.235	-2.664
11	-1.422	-2.135	*000.000	-2.308	-2.407	-1.925	-1.457
12	-2.253	-1.569	-1.547	-1.591	-1.772	-1.429	-1.169
13	-2.373	-1.618	-1.413	-1.334	-1.452	-1.298	-1.040
14	-2.980	-1.808	-1.445	-1.441	-1.466	-1.274	-1.033
15	-1.751	-.416	-.293	-.259	-.404	-.308	-.137
16	-3.220	-3.144	-2.439	-2.131	-1.899	-1.823	-1.369
17	-2.952	-4.223	-3.051	-2.981	-2.424	-1.663	-1.346
18	-2.874	-4.609	-3.249	-3.159	-3.296	-1.857	-1.189
19	-2.602	-4.230	-3.023	-2.797	-1.478	-1.967	-1.069
20	-2.395	-3.566	-2.356	-2.474	-1.483	-1.350	-.946
21	-2.216	-2.318	-1.447	-1.616	-1.090	-.961	-.739
22	-2.046	-1.432	-.987	-1.119	-.941	-.788	-.636
23	-1.816	-.958	-.487	-.441	-.488	-.642	-.528
24	-1.505	-.762	-.417	-.388	-.112	-.569	-.523
25	-.608	-2.422	-3.955	1.024	1.264	1.113	.419
26	.723	.530	.070	.084	*000.000	-.606	.312
27	.742	.923	.653	1.016	.581	.654	.769
28	.480	.860	.912	.981	1.027	.845	.649
29	.081	.649	.729	.804	.854	.703	.575
30	-.429	.822	.881	1.073	1.010	.926	-.228
31	.325	1.133	1.086	1.451	1.402	1.289	.619
32	.445	1.009	.873	1.246	1.223	1.053	.862
33	.341	.714	.605	.991	.990	.755	.371

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.736	-7.487	-9.346	.108	.855	.787	-.442
2	-4.261	-7.679	-9.086	-1.037	-.287	-.229	-.928
3	-4.312	-7.521	-8.732	-1.467	-.797	-.624	-1.073
4	-4.018	-6.606	-7.693	-1.841	-1.257	-1.162	-1.244
5	-3.054	-5.051	-5.599	-1.725	-1.487	-1.375	-1.259
6	*000.000	*000.000	*000.000	.051	.110	.052	-.013
7	*000.000	*000.000	*000.000	-1.723	-1.285	-1.129	-1.247
8	*000.000	*000.000	*000.000	-3.312	-3.056	-2.622	-2.266
9	*000.000	*000.000	*000.000	-4.455	-4.105	-3.261	-2.276
10	-2.005	-3.102	-3.682	-3.574	-2.813	-1.757	-.942
11	-1.525	-2.227	*000.000	-1.957	-1.638	-1.038	-.838
12	-1.927	-1.453	-1.319	-.792	-.671	-.717	-.718
13	-2.144	-1.629	-1.428	-.854	-.989	-.985	-.844
14	-1.956	-1.593	-1.316	-.765	-.772	-.785	-.634
15	-1.613	-.482	-.308	.053	-.005	-.012	-.054
16	-2.712	-3.400	-2.682	-1.344	-1.415	-1.358	-1.030
17	-2.618	-4.338	-3.131	-1.086	-1.250	-1.194	-.881
18	-2.617	-4.863	-3.644	-1.506	-1.455	-1.128	-1.304
19	-2.722	-4.949	-3.852	-1.254	-1.283	-1.299	-1.042
20	-2.413	-3.854	-2.951	-.925	-.879	-.939	-.915
21	-2.264	-2.883	-2.149	-.689	-.788	-.786	-.776
22	-2.095	-1.797	-1.521	-.857	-.837	-.772	-.675
23	-1.755	-1.000	-.544	-.610	-.517	-.484	-.429
24	-1.662	-.457	-.242	-.549	-.474	-.464	-.421
25	-.955	-3.186	-4.609	1.344	1.423	1.263	.411
26	.849	.394	-.039	.221	*000.000	-.211	.343
27	.908	.978	.878	1.376	.958	.766	.775
28	.562	.886	.964	1.027	1.092	.907	.680
29	.227	.760	.860	.937	.924	.768	.668
30	-.256	.886	.932	1.153	1.009	.984	-.145
31	.308	1.155	1.101	1.527	1.517	1.398	.627
32	.487	1.059	.944	1.362	1.319	1.201	1.044
33	.422	.704	.654	1.026	.961	.774	.396

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-4.705	-9.288	-11.000	-.238	.470	.558	-.860
2	-5.677	-10.304	-12.328	-1.722	-.755	-.581	-1.219
3	-5.139	-9.166	-10.748	-1.843	-1.223	-.869	-1.171
4	-4.712	-7.512	-8.703	-2.150	-1.726	-1.551	-1.386
5	-3.471	-5.692	-6.158	-1.990	-1.583	-1.226	-.774
6	*000.000	*000.000	*000.000	.094	.182	.113	-.024
7	*000.000	*000.000	*000.000	-2.267	-1.819	-1.298	-1.166
8	*000.000	*000.000	*000.000	-3.831	-3.472	-2.614	-1.658
9	*000.000	*000.000	*000.000	-5.260	-4.889	-3.486	-1.630
10	-2.003	-3.238	-3.912	-3.879	-3.162	-2.072	-.903
11	.267	1.208	*000.000	1.487	1.514	1.398	.638
12	-2.293	-1.639	-1.612	-1.240	-1.023	-.895	-.670
13	-1.906	-1.552	-1.398	-.826	-1.114	-.668	-.548
14	-2.038	-1.665	-1.507	-.987	-1.001	-.605	-.801
15	-1.602	-.472	-.448	-.056	-.216	-.068	-.110
16	-2.499	-3.138	-2.624	-1.815	-1.955	-1.092	-1.019
17	-2.456	-4.204	-3.274	-1.633	-1.492	-1.005	-.871
18	-2.937	-4.789	-3.850	-2.449	-1.747	-1.190	-1.365
19	-2.520	-4.637	-3.630	-1.590	-1.479	-1.049	-.982
20	-2.515	-3.645	-2.984	-1.639	-1.225	-.899	-.918
21	-2.196	-2.695	-2.285	-1.288	-1.199	-.850	-.996
22	-2.012	-1.886	-1.575	-.992	-1.029	-.829	-.792
23	-1.844	-1.064	-.669	-.774	-.891	-.970	-1.055
24	-1.560	-.435	-.233	-.477	-.588	-.651	-.617
25	-1.898	-4.662	-6.055	1.220	1.336	1.234	.329
26	.563	-.093	-.550	.372	*000.000	-.151	.307
27	.912	.869	.506	1.396	1.290	.779	.713
28	.522	.933	.934	.999	.974	.772	.596
29	.270	.959	1.042	1.111	1.075	.892	.798
30	-.320	.922	.882	1.124	1.028	.963	-.087
31	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
32	.456	1.038	.965	1.352	1.328	1.178	.889
33	.439	.635	.776	1.031	.934	.698	.374

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-4.081	-5.602	-5.601	-.362	.238	.269	-1.087
2	-4.706	-5.434	-4.174	-1.739	-.894	-.782	-1.359
3	-4.116	-4.253	-2.735	-1.884	-1.464	-1.254	-1.413
4	-3.912	-2.616	-1.623	-2.400	-1.978	-1.768	-1.347
5	-2.591	-1.570	-1.301	-1.986	-1.848	-1.540	-.880
6	*000.000	*000.000	*000.000	.255	.209	.253	.139
7	*000.000	*000.000	*000.000	-1.932	-1.646	-1.203	-.827
8	*000.000	*000.000	*000.000	-3.322	-3.202	-2.126	-1.024
9	*000.000	*000.000	*000.000	-4.237	-4.339	-2.977	-1.089
10	-1.210	-1.366	-1.281	-2.940	-2.918	-1.739	-.735
11	-.991	-1.313	*000.000	-1.630	-1.425	-.587	-.363
12	-1.337	-1.348	-1.220	-1.007	-.777	-.568	-.606
13	-.759	-1.100	-.990	-.854	-.814	-.418	-.491
14	-.664	-.528	-.169	-.145	-.061	.102	-.120
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	-1.180	-1.541	-1.543	-2.065	-1.862	-1.333	-1.114
17	-1.129	-1.622	-1.689	-2.178	-2.006	-1.016	-.971
18	-1.148	-1.590	-1.273	-1.969	-1.494	-.964	-1.142
19	-1.223	-1.404	-1.509	-2.072	-2.014	-1.435	-1.013
20	-1.079	-1.267	-1.177	-1.974	-1.650	-1.226	-1.381
21	-.921	-1.033	-1.013	-1.315	-1.076	-.785	-.768
22	-.857	-.880	-.855	-1.048	-.927	-.900	-.916
23	-.896	-.936	-.753	-.744	-.763	-.827	-.820
24	-.743	-.756	-.642	-.542	-.559	-.573	-.546
25	-1.838	-3.197	-3.624	1.196	1.412	1.232	-.077
26	.595	.204	.089	.511	*000.000	.171	.299
27	.824	.868	.877	1.349	1.322	.950	.666
28	.567	.921	1.018	1.030	1.069	.816	.676
29	.275	.799	.944	.954	.896	.773	.706
30	-.047	.913	.915	1.066	.967	.913	.015
31	.410	1.110	1.047	1.386	1.358	1.324	.533
32	.591	1.002	.936	1.336	1.304	1.155	.967
33	.530	.727	.848	1.095	1.009	.763	.400

Table 26. - Pressure coefficients for wing with propeller rotation up at tip, inboard slat and fences, $\delta_f = 20°$.

(a) $C_{T,S} = 0.90$, $q_s = 20.21$

$\alpha = 5°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.937	.876	.625	-1.075	-.005	.220	.228
2	.325	.203	.073	-.164	.801	1.005	.236
3	.101	-.192	-.282	.094	.979	1.108	.338
4	-.242	-.361	-.488	.638	1.117	1.080	.252
5	-.473	-.769	-.776	.894	1.084	.946	.167
6	.000.000	.000.000	.000.000	.840	.869	.782	.347
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.502	.320	.193	-.086
9	.000.000	.000.000	.000.000	-.153	-.454	-.596	-.530
10	-.356	-.741	-.966	-.253	-.498	-.515	-.395
11	-.271	-.768	.000.000	-.481	-.680	-.486	-.321
12	-.473	-.471	-.556	-.417	-.517	-.307	-.266
13	-.147	-.375	-.433	-.316	-.394	-.242	-.229
14	-.146	-.320	-.365	-.301	-.348	-.232	-.152
15	-.215	.030	.039	-.112	-.109	-.052	-.066
16	.205	-.272	.227	-.111	-.102	.040	.031
17	.254	-.144	.250	-.114	-.126	.015	0.
18	.253	.156	.239	-.121	-.106	.051	.006
19	.167	-.028	-.067	-.140	-.093	-.041	-.045
20	-.333	-.423	-.548	-.287	-.169	-.166	-.120
21	-.454	-.668	-.740	-.511	-.250	-.293	-.254
22	-.409	-.651	-.774	-.623	-.229	-.355	-.236
23	-.372	-.281	-.302	-.277	-.109	-.105	-.078
24	-.269	.045	.170	-.025	-.117	-.059	-.022
25	1.000	1.087	.919	-.939	-.512	-.645	-.250
26	.519	.974	.749	-.773	.000.000	-.717	.298
27	.013	.254	.324	-.308	-.201	-.230	-.272
28	-.023	.124	.188	-.242	-.128	-.174	-.062
29	.085	.225	.217	-.110	-.218	-.029	.013
30	1.028	.991	.935	-.067	-.137	.021	.179
31	.454	.579	.543	-.160	-.091	.024	.153
32	.267	.459	.507	-.112	-.100	.019	.137
33	.102	.312	.347	-.090	-.074	-.007	.054

$\alpha = 10°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.828	.526	.245	-.779	.230	.649	.244
2	.100	-.112	-.347	-.026	.949	1.195	.366
3	-.064	-.337	-.543	.205	1.043	1.194	.319
4	-.361	-.766	-.847	.639	1.226	1.208	.251
5	-.543	-.943	-.990	.770	1.027	.885	.257
6	.000.000	.000.000	.000.000	-.272	-.232	-.249	-.157
7	.000.000	.000.000	.000.000	.807	.847	.797	.349
8	.000.000	.000.000	.000.000	.477	.254	.170	-.124
9	.000.000	.000.000	.000.000	-.192	-.632	-.709	-.658
10	-.436	-.862	-1.001	-.291	-.598	-.545	-.430
11	-.307	-.798	.000.000	-.497	-.720	-.493	-.378
12	-.949	-.474	-.574	-.454	-.524	-.327	-.243
13	-.225	-.689	.261	-.049	-.054	-.031	-.009
14	-.261	-.362	-.431	-.329	-.316	-.181	-.122
15	-.182	-.105	.047	-.028	-.013	.025	-.011
16	.217	-.238	.252	-.047	-.048	.032	.027
17	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
18	.261	.197	.238	-.106	-.060	.023	.016
19	.083	-.053	-.048	-.089	-.062	.039	.018
20	-.411	-.498	-.544	-.241	-.135	-.101	-.106
21	-.565	-.720	-.811	-.486	-.212	-.189	-.210
22	-.532	-.753	-.792	-.603	-.172	-.207	-.205
23	-.469	-.370	-.316	-.259	-.036	.015	-.013
24	-.383	.033	.199	-.016	-.039	.005	.013
25	1.085	1.121	.871	-1.021	-.503	-.258	-.169
26	.741	.960	.910	-.873	.000.000	-.595	.245
27	.109	.333	.457	-.309	-.225	-.127	-.156
28	.019	.172	.266	-.245	-.125	-.092	-.015
29	.078	.262	.262	-.107	-.149	.049	.120
30	1.032	1.025	.939	-.080	-.121	.105	.353
31	.445	.613	.659	-.084	-.056	.106	.173
32	.269	.458	.516	.088	-.110	.028	.126
33	.104	.364	.409	.180	-.020	.036	.051

$\alpha = 15°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.692	.427	.049	-.610	.391	.702	.023
2	-.002	-.449	-.709	.207	.959	1.203	.246
3	-.241	-.712	-.872	.300	1.139	1.236	.181
4	-.554	-.997	-1.154	.761	1.199	1.129	.108
5	-.650	-1.144	-1.167	.811	.994	.817	.025
6	.000.000	.000.000	.000.000	-.240	-.195	-.207	-.235
7	.000.000	.000.000	.000.000	.783	.787	.764	.208
8	.000.000	.000.000	.000.000	.328	.140	.024	-.279
9	.000.000	.000.000	.000.000	-.344	-.720	-.824	-.711
10	-.518	-1.007	-1.174	-.318	-.671	-.658	-.545
11	-.388	-.905	.000.000	-.580	-.761	-.542	-.445
12	-.449	-.538	-.534	-.491	-.530	-.314	-.328
13	-.267	-.426	-.434	-.273	-.338	-.275	-.265
14	-.337	-.409	-.420	-.331	-.240	-.218	-.240
15	-.139	-.273	.160	.018	-.007	-.009	-.079
16	.131	-.263	.267	-.027	-.038	.076	-.039
17	.170	-.096	.249	.050	-.018	.023	-.035
18	.144	.140	.225	.011	-.059	.040	-.032
19	-.032	-.047	-.033	-.074	-.015	-.008	-.057
20	-.543	-.529	-.502	-.239	-.081	-.180	-.221
21	-.681	-.776	-.741	-.481	-.195	-.183	-.301
22	-.711	-.799	-.763	-.575	-.195	-.150	-.239
23	-.671	-.411	-.245	-.209	-.002	.060	0.
24	-.360	.041	.234	.047	-.046	-.005	-.026
25	1.056	1.030	.676	-.787	-.812	-.162	-.117
26	.761	.954	.915	-.786	.000.000	-.524	.100
27	.198	.501	.606	-.352	-.187	-.103	-.134
28	.082	.240	.384	-.229	-.157	-.071	-.089
29	.085	.300	.359	-.104	-.161	-.029	.050
30	.416	.933	.930	-.030	-.012	.026	.177
31	.420	.644	.615	.047	.013	.140	.125
32	.239	.421	.506	.183	0.	.034	.137
33	.098	.342	.406	.222	.022	.176	-.025

$\alpha = 20°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.520	-.027	-.602	-.378	.558	.817	.234
2	-.320	-.470	-1.313	.293	1.085	1.176	.299
3	-.518	-1.155	-1.399	.412	1.146	1.147	.235
4	-.742	-1.279	-1.461	.611	1.139	.995	.204
5	-.769	-1.430	-1.522	.845	.970	.692	.035
6	.000.000	.000.000	.000.000	-.315	-.170	-.302	-.165
7	.000.000	.000.000	.000.000	.738	.757	.670	.340
8	.000.000	.000.000	.000.000	.287	.044	-.082	-.241
9	.000.000	.000.000	.000.000	-.424	-.820	-.838	-.715
10	-.578	-1.107	-1.209	-.506	-.776	-.739	-.549
11	-.465	-.898	.000.000	-.608	-.772	-.613	-.413
12	-1.094	-.592	-.601	-.511	-.554	-.415	-.307
13	-.421	-.502	-.464	-.358	-.350	-.282	-.254
14	-.504	-.462	-.470	-.327	-.302	-.212	-.203
15	-.193	-.366	.263	.026	.072	-.018	-.036
16	.040	-.294	.307	.023	.041	.101	.026
17	-.155	-.116	.249	.011	.023	.033	.006
18	-.043	.144	.250	.011	-.027	.072	.023
19	-.150	-.040	-.026	-.058	-.003	-.005	-.048
20	-.701	-.599	-.562	-.278	-.131	-.201	-.291
21	-1.014	-.913	-.830	-.527	-.246	-.274	-.275
22	-1.030	-.883	-.749	-.623	-.204	-.246	-.271
23	-.599	-.409	-.265	-.195	-.020	-.062	-.083
24	-.445	.029	.160	.076	-.050	-.051	.016
25	1.081	.932	.369	-.654	-.181	-.272	-.094
26	.821	.993	.700	-.684	.000.000	-.431	.073
27	.303	.624	.729	-.313	-.085	-.197	-.197
28	.080	.309	.440	-.238	-.115	-.091	-.038
29	.030	.417	.472	-.084	-.047	.030	.145
30	.467	.420	.462	.035	.044	.378	.367
31	.465	.596	.648	.042	.089	.315	.221
32	.211	.474	.576	.296	.032	.180	.203
33	.154	.303	.411	.367	.095	.089	-.002

$\alpha = 25°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.381	-.337	-1.111	-.137	.694	.886	.179
2	-.403	-1.262	-1.842	.418	1.146	1.253	.109
3	-.768	-1.556	-1.945	.578	1.216	1.271	.070
4	-1.110	-1.734	-2.049	.839	1.167	1.031	-.020
5	-.979	-1.722	-1.818	.913	.874	.664	.039
6	.000.000	.000.000	.000.000	.696	.733	.681	.286
7	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
8	.000.000	.000.000	.000.000	.188	-.089	-.149	-.287
9	.000.000	.000.000	.000.000	-.560	-1.010	-1.056	-.784
10	-.538	-1.244	-1.482	-.534	-.950	-.828	-.659
11	-.466	-.995	.000.000	-.621	-.848	-.566	-.445
12	-1.004	-.614	-.509	-.475	-.562	-.413	-.362
13	-.518	-.515	-.466	-.283	-.386	-.305	-.287
14	-.347	-.448	-.472	-.308	-.361	-.268	-.231
15	-.220	-.526	-.250	.104	.053	.094	-.042
16	.170	-.323	.293	.090	.049	.017	-.004
17	-.154	-.124	.244	.053	.057	-.023	.040
18	-.167	.155	.215	.026	.016	.069	-.005
19	-.355	-.114	-.104	-.010	-.043	.025	-.054
20	-.997	-.691	-.603	-.279	-.187	-.154	-.217
21	-1.282	-.931	-.811	-.507	-.324	-.285	-.295
22	-1.347	-.942	-.736	-.591	-.297	-.258	-.283
23	-1.146	-.532	-.313	-.188	-.017	.018	-.100
24	-.542	.036	.187	.116	-.064	.008	0.
25	1.138	.804	.038	-.899	-.122	-.095	-.041
26	1.023	1.030	.811	-.766	.000.000	-.387	-.010
27	.439	.708	.746	-.305	-.111	-.173	-.206
28	.145	.349	.547	-.229	-.102	-.072	.047
29	.097	.324	.403	-.023	-.036	.070	.071
30	.421	.847	.872	.139	.097	.203	.304
31	.411	.627	.699	.253	.052	.144	.217
32	.224	.434	.576	.309	.126	.178	.230
33	.098	.295	.444	.338	.128	.185	.039

$\alpha = 30°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.084	-.727	-1.685	-.018	.751	.876	-.005
2	-.437	-1.720	-2.525	.596	1.183	1.223	.007
3	-1.142	-2.041	-2.664	.734	1.232	1.213	-.010
4	-1.193	-2.039	-2.511	.939	1.044	.886	-.119
5	-1.179	-2.020	-2.140	.967	.748	.505	-.078
6	.000.000	.000.000	.000.000	-.250	-.197	-.257	-.063
7	.000.000	.000.000	.000.000	.701	.619	.493	.230
8	.000.000	.000.000	.000.000	.189	-.263	-.351	-.321
9	.000.000	.000.000	.000.000	-.626	-1.207	-1.193	-.800
10	-.777	-1.363	-1.540	-.720	-1.084	-.982	-.568
11	-.567	-1.070	.000.000	-.654	-.944	-.725	-.465
12	-1.127	-.662	-.602	-.516	-.653	-.497	-.328
13	-.759	-.593	-.470	-.343	-.441	-.376	-.254
14	-.493	-.546	-.433	-.330	-.430	-.366	-.239
15	-.311	-.614	.335	.188	.051	-.021	-.047
16	-.384	-.234	.329	.165	.081	.025	-.023
17	-.396	-.134	.280	.103	.048	.012	.040
18	-.417	.166	.189	.119	.046	-.026	.006
19	-.587	-.164	-.124	-.014	-.079	-.043	.011
20	-1.298	-.735	-.637	-.335	-.345	-.292	-.254
21	-1.532	-.971	-.722	-.560	-.445	-.418	-.342
22	-1.458	-1.020	-.795	-.612	-.473	-.421	-.329
23	-1.457	-.552	-.231	-.215	-.057	-.152	-.078
24	-.641	.007	.111	.108	-.051	-.093	-.013
25	.987	.545	-.320	-.416	-.076	-.038	-.005
26	.990	1.031	.774	-.599	.000.000	-.394	-.032
27	.419	.783	.837	-.214	-.128	-.254	-.155
28	.123	.447	.601	-.098	-.138	-.164	.059
29	0.	.362	.462	.120	.008	-.095	.177
30	.742	.900	.934	.227	.091	.212	.394
31	.372	.606	.789	.481	.154	.099	.240
32	.116	.429	.544	.444	.167	.185	.273
33	-.013	.245	.418	.393	.186	.258	.030

Table 26. - Continued.

(a) $C_{T,S} = 0.90$, $q_s = 20.21$

$\alpha = 35°$

TUBE NO	1	2	WING STATIONS 3	4	5	6	7
1	-.203	-1.160	-2.603	.235	.940	1.005	-.100
2	-1.141	-2.164	-3.142	.689	1.272	1.252	-.042
3	-1.395	-2.426	-3.173	.790	1.212	1.155	-.328
4	-1.455	-2.281	-2.792	.891	1.012	.828	-.408
5	-1.321	-2.118	-2.287	.825	.695	.436	-.291
6	*000.000	*000.000	*000.000	-.274	-.227	-.263	-.019
7	*000.000	*000.000	*000.000	.613	.581	.583	.126
8	*000.000	*000.000	*000.000	.051	-.291	-.371	-.369
9	*000.000	*000.000	*000.000	-.751	-1.250	-1.194	-.810
10	-.867	-1.388	-1.534	-.849	-1.073	-.908	-.558
11	-.678	-1.081	*000.000	-.697	-.969	-.727	-.425
12	-1.032	-.705	-.565	-.544	-.662	-.432	-.395
13	-.807	-.607	-.442	-.389	-.460	-.331	-.361
14	-.477	-.550	-.396	-.370	-.399	-.273	-.264
15	-.409	-.434	.303	.157	.130	.065	-.090
16	-.522	-.188	.346	.184	.061	.064	-.022
17	-.561	-.167	.278	.126	.036	.026	-.017
18	-.432	.124	.172	.077	.019	.077	.035
19	-.658	-.193	-.155	-.034	-.071	0.	-.116
20	-1.439	-.694	-.566	-.382	-.325	-.341	-.241
21	-1.959	-1.066	-.736	-.677	-.622	-.482	-.350
22	-2.067	-1.054	-.799	-.679	-.507	-.541	-.447
23	-1.657	-.572	-.298	-.246	-.037	-.099	-.264
24	-.653	-.023	.126	.069	-.028	-.087	-.139
25	.488	.488	-.895	-.437	.042	-.075	-.127
26	1.016	1.011	.745	-.610	*000.000	-.398	-.048
27	.539	.873	.871	-.186	-.146	-.223	-.148
28	.172	.487	.547	-.146	-.061	-.204	.002
29	-.029	.372	.447	.155	.093	-.011	.174
30	.671	.475	.849	.355	.187	.169	.244
31	.321	.619	.695	.448	.228	.093	.238
32	.114	.419	.560	.525	.293	.197	.246
33	-.043	.320	.417	.415	.253	.055	.025

$\alpha = 40°$

TUBE NO	1	2	WING STATIONS 3	4	5	6	7
1	-.500	-1.474	-2.935	.370	.940	.915	-.179
2	-1.499	-2.594	-3.725	.748	1.197	1.229	-.299
3	-1.741	-2.774	-3.704	.713	1.177	1.057	-.348
4	-1.789	-2.604	-3.318	.860	.955	.730	-.513
5	-1.630	-2.440	-2.766	.836	.656	.451	-.442
6	*000.000	*000.000	*000.000	-.288	-.205	-.269	-.064
7	*000.000	*000.000	*000.000	.924	.513	.547	-.059
8	*000.000	*000.000	*000.000	-.063	-.439	-.357	-.405
9	*000.000	*000.000	*000.000	-.924	-1.433	-1.118	-.698
10	-.984	-1.585	-1.635	-1.060	-1.191	-.894	-.526
11	-.839	-1.132	*000.000	-.672	-1.042	-.675	-.412
12	-1.029	-.739	-.552	-.650	-.701	-.389	-.291
13	-1.020	-.690	-.457	-.440	-.530	-.356	-.296
14	-1.233	-.611	-.500	-.435	-.501	-.275	-.196
15	-.556	-.440	.345	.124	.032	.185	-.121
16	-.725	-.185	.336	.178	.058	.055	-.080
17	-.738	-.219	.242	.127	.007	.062	-.070
18	-.688	.102	.215	.106	-.019	.099	-.082
19	-.662	-.237	-.164	-.087	-.124	-.018	-.175
20	-1.632	-.749	-.585	-.483	-.486	-.333	-.340
21	-2.335	-1.156	-.726	-.735	-.710	-.571	-.346
22	-2.324	-1.044	-.616	-.708	-.575	-.610	-.322
23	-1.868	-.644	-.247	-.285	-.091	-.145	-.277
24	-.816	-.089	.017	.045	-.088	-.119	-.152
25	.772	.165	-1.037	-.849	.058	-.021	-.175
26	1.436	.944	.706	-.582	*000.000	-.408	-.093
27	.936	.843	.933	-.178	-.160	-.238	-.040
28	.146	.509	.626	-.120	-.107	-.176	-.024
29	-.036	.348	.448	.173	.040	.063	.033
30	.640	.858	.943	.545	.278	.200	.244
31	.251	.598	.690	.573	.313	.336	.223
32	.064	.383	.586	.541	.346	.225	.124
33	-.074	.280	.397	.384	.348	.193	.043

$\alpha = 45°$

TUBE NO	1	2	WING STATIONS 3	4	5	6	7
1	-.968	-1.886	-3.330	.427	.971	.940	-.375
2	-1.968	-2.859	-4.024	.686	1.133	1.192	-.348
3	-2.112	-3.064	-4.096	.939	1.118	1.100	-.324
4	-2.167	-2.865	-3.548	.862	.893	.873	-.438
5	-1.795	-2.497	-2.819	.732	.542	.479	-.397
6	*000.000	*000.000	*000.000	-.218	-.209	-.224	.016
7	*000.000	*000.000	*000.000	.527	.503	.475	.088
8	*000.000	*000.000	*000.000	-.150	-.503	-.220	-.228
9	*000.000	*000.000	*000.000	-1.050	-1.548	-.965	-.518
10	-1.140	-1.566	-1.808	-1.008	-1.269	-.738	-.340
11	-.908	-1.195	*000.000	-.722	-1.081	-.432	-.269
12	-1.998	-.772	-.619	-.618	-.739	-.301	-.184
13	-1.259	-.738	-.560	-.442	-.585	-.197	-.139
14	-1.662	-.691	-.447	-.435	-.529	-.206	-.185
15	-.777	-.665	.333	.202	.062	.193	-.050
16	-.961	-.129	.316	.230	.073	.161	-.017
17	-.961	-.244	.215	.248	.025	.159	.039
18	-.885	.095	.142	.137	-.015	.039	-.020
19	-1.076	-.236	-.157	-.022	-.175	.018	-.043
20	-1.916	-.766	-.617	-.424	-.505	-.254	-.174
21	-2.503	-1.179	-.763	-.744	-.799	-.514	-.395
22	-2.210	-1.179	-.662	-.742	-.723	-.534	-.338
23	-1.941	-.668	-.370	-.244	-.145	-.190	-.229
24	-.961	-.074	-.043	.031	-.094	-.032	-.069
25	.519	-.097	-1.342	-.060	.045	-.114	.073
26	1.432	.937	.649	-.443	*000.000	-.247	.030
27	.576	.915	.863	-.130	-.130	-.173	.106
28	.190	.537	.692	-.065	-.153	-.070	.051
29	-.139	.327	.457	.275	.074	.254	.168
30	.586	.848	.803	.569	.259	.223	.270
31	.195	.601	.665	.606	.355	.320	.214
32	-.009	.420	.529	.569	.310	.285	.189
33	-.114	.275	.324	.423	.250	.198	.070

$\alpha = 50°$

TUBE NO	1	2	WING STATIONS 3	4	5	6	7
1	-1.593	-2.377	-3.919	.466	1.070	.965	-.411
2	-2.594	-3.228	-4.468	.858	1.221	1.178	-.490
3	-2.712	-3.376	-4.395	.821	1.160	1.205	-.342
4	-2.527	-3.116	-3.831	.801	.904	.774	-.421
5	-2.094	-2.721	-2.918	.648	.522	.543	-.310
6	*000.000	*000.000	*000.000	-.263	-.200	-.280	-.033
7	*000.000	*000.000	*000.000	.439	.491	.575	-.002
8	*000.000	*000.000	*000.000	-.304	-.625	-.191	-.326
9	*000.000	*000.000	*000.000	-1.260	-1.629	-.955	-.436
10	-1.322	-1.766	-1.717	-1.217	-1.285	-.534	-.309
11	-1.086	-1.297	*000.000	-.861	-1.155	-.368	-.241
12	-1.062	-.827	-.661	-.697	-.741	-.297	-.265
13	-1.399	-.720	-.514	-.462	-.509	-.234	-.139
14	-1.652	-.724	-.496	-.462	-.521	-.255	-.219
15	-.898	-.582	.338	.241	.183	.170	-.010
16	-1.132	-.679	.308	.152	.080	.116	0.
17	-1.050	-.277	.283	.155	.087	.071	.057
18	-1.025	.069	.181	.125	-.020	.106	.061
19	-1.204	-.256	-.155	-.096	-.154	-.008	-.049
20	-2.244	-.869	-.694	-.593	-.479	-.355	-.229
21	-2.635	-1.194	-.852	-.785	-.755	-.426	-.274
22	-2.474	-1.190	-.843	-.866	-.764	-.574	-.393
23	-1.928	-.596	-.384	-.288	-.213	-.343	-.260
24	-.976	-.066	.047	-.005	.034	-.018	
25	.192	-.197	-1.451	-.088	.149	-.094	-.118
26	.955	.976	.768	-.533	*000.000	-.316	.011
27	.699	.935	.969	-.213	-.088	-.192	.142
28	.191	.545	.713	-.059	-.142	-.012	.126
29	-.116	.385	.492	.291	.146	.189	.167
30	.660	.864	.951	.640	.343	.264	.212
31	.309	.638	.673	.638	.315	.271	.181
32	-.11	.445	.586	.531	.333	.344	.266
33	-.132	.281	.399	.375	.273	.212	.120

$\alpha = 55°$

TUBE NO	1	2	WING STATIONS 3	4	5	6	7
1	-1.923	-2.932	-3.873	.730	1.028	.797	-.362
2	-3.136	-3.978	-4.747	.849	1.221	.915	-.612
3	-3.161	-3.324	-4.252	.915	1.123	.942	-.581
4	-2.812	-3.417	-3.852	.754	.866	.712	-.504
5	-2.394	-2.965	-3.038	.581	.498	.353	-.298
6	*000.000	*000.000	*000.000	-.274	-.157	-.264	-.059
7	*000.000	*000.000	*000.000	.347	.474	.710	-.016
8	*000.000	*000.000	*000.000	-.510	-.580	.064	-.130
9	*000.000	*000.000	*000.000	-1.350	-1.618	-.678	-.366
10	-1.477	-1.853	-1.765	-1.264	-1.293	-.589	-.296
11	-1.094	-1.371	*000.000	-.893	-1.085	-.296	-.199
12	-1.131	-.943	-.668	-.668	-.604	-.249	-.191
13	-1.350	-.775	-.515	-.464	-.467	-.362	-.260
14	-1.796	-.713	-.520	-.448	-.402	-.252	-.265
15	-1.013	-.540	.380	.275	.185	.111	-.027
16	-1.122	-.048	.278	.251	.131	.068	-.026
17	-1.185	-.335	.237	.260	.149	.010	-.055
18	-1.188	.038	.194	.178	.094	.019	-.025
19	-1.340	-.312	-.206	-.089	-.101	.029	-.049
20	-2.144	-.861	-.651	-.529	-.452	-.216	-.233
21	-2.974	-1.247	-.789	-.868	-.703	-.431	-.377
22	-2.975	-1.139	-.754	-.849	-.755	-.511	-.364
23	-1.818	-.607	-.446	-.308	-.211	-.288	-.304
24	-.999	-.132	-.134	-.006	-.055	-.080	-.118
25	-.105	-.492	-1.799	.103	.215	-.217	-.136
26	.902	.863	.826	-.394	*000.000	-.353	-.083
27	.628	.899	1.000	-.170	-.126	-.196	-.057
28	.181	.521	.835	-.083	-.129	-.006	.063
29	-.151	.332	.526	.266	.140	.083	.058
30	.561	.847	.960	.754	.502	.277	.155
31	.183	.619	.699	.608	.420	.251	.140
32	-.082	.423	.584	.517	.357	.210	.045
33	-.080	.268	.395	.388	.319	.129	.076

$\alpha = 60°$

TUBE NO	1	2	WING STATIONS 3	4	5	6	7
1	-2.496	-2.723	-4.178	.695	1.010	.542	-.212
2	-3.536	-3.444	-4.736	1.016	1.177	.817	-.199
3	-3.584	-3.515	-4.559	.844	1.069	.789	-.145
4	-3.105	-3.500	-3.759	.781	.830	.721	-.229
5	-2.774	-3.034	-3.094	.531	.496	.359	-.077
6	*000.000	*000.000	*000.000	-.297	-.181	-.241	.042
7	*000.000	*000.000	*000.000	.353	.455	.755	.043
8	*000.000	*000.000	*000.000	-.606	-.549	-.057	-.101
9	*000.000	*000.000	*000.000	-1.663	-1.636	-.452	-.128
10	-1.615	-1.893	-1.751	-1.451	-1.268	-.329	.002
11	-1.185	-1.385	*000.000	-.943	-.940	-.322	-.048
12	-1.454	-.909	-.638	-.663	-.506	-.239	-.189
13	-1.455	-.800	-.592	-.493	-.380	-.283	-.175
14	-2.055	-.781	-.575	-.405	-.283	-.315	-.096
15	-1.064	-.472	.339	.253	.113	-.006	-.088
16	-1.243	.030	.248	.197	.143	.113	-.017
17	-1.236	-.340	.173	.189	.077	.037	.056
18	-1.307	.030	.136	.142	.081	.049	.077
19	-1.613	-.403	-.264	-.045	-.093	-.047	-.062
20	-2.376	-.924	-.803	-.517	-.398	-.284	-.132
21	-2.841	-1.097	-.885	-.788	-.516	-.402	-.342
22	-2.922	-1.068	-.831	-.841	-.672	-.496	-.268
23	-1.878	-.612	-.560	-.227	-.272	-.366	-.234
24	-.812	-.171	-.128	.083	.024	-.117	-.100
25	-.511	-.680	-1.732	.194	.204	-.255	-.019
26	.665	.742	.557	-.401	*000.000	-.269	-.046
27	.518	.860	.959	-.201	-.119	-.252	.131
28	.131	.529	.686	-.072	-.123	-.132	.096
29	-.203	.320	.472	.294	.113	.056	.139
30	.399	.829	.952	.522	.307	.182	.192
31	.056	.584	.719	.581	.433	.232	.181
32	-.053	.377	.535	.510	.340	.075	.135
33	-.108	.189	.344	.361	.197	.172	.052

Table 26.- Continued.

(a) $C_{T,s} = 0.90$, $q_s = 20.21$

$\alpha = 65°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.018	-2.988	-4.071	.874	.976	.182	-.164
2	-3.755	-3.588	-4.697	.938	1.079	.640	-.073
3	-3.821	-3.747	-4.591	1.000	1.028	.692	-.264
4	-1.500	-4.025	-4.211	.825	.858	.833	-.133
5	-2.708	-3.093	-2.948	.540	.432	.544	-.150
6	.000.000	.000.000	.000.000	-.283	-.177	-.159	-.078
7	.000.000	.000.000	.000.000	.353	.431	.573	.031
8	.000.000	.000.000	.000.000	-.661	-.613	.059	-.061
9	.000.000	.000.000	.000.000	-1.650	-1.489	-.377	-.174
10	-1.609	-1.938	-1.603	-1.396	-1.104	-.233	-.143
11	-1.209	-1.420	.000.000	-.880	-.794	-.136	-.160
12	-.959	-.967	-.658	-.559	-.397	-.121	-.137
13	-1.678	-.860	-.678	-.444	-.345	-.165	-.212
14	-2.033	-.406	-.621	-.441	-.401	-.034	-.211
15	-1.112	-.357	.333	.251	-.031	.010	-.002
16	-1.299	.017	.229	.250	.011	.112	-.003
17	-1.238	-.464	.177	.182	.086	.050	.004
18	-1.272	-.078	.078	.127	-.039	-.039	-.005
19	-1.660	-.428	-.255	-.045	-.077	-.033	-.009
20	-2.378	-1.013	-.773	-.482	-.215	-.204	-.198
21	-2.741	-1.140	-.935	-.614	-.443	-.191	-.191
22	-2.646	-1.099	-.943	-.649	-.534	-.354	-.284
23	-1.406	-.690	-.634	-.189	-.307	-.246	-.295
24	-.734	-.208	-.080	.048	-.101	-.111	-.134
25	-.486	-.408	-1.777	.189	.049	-.463	-.129
26	.400	.759	.582	-.230	.000.000	-.207	-.065
27	.410	.794	.878	-.150	-.138	-.101	-.025
28	.075	.492	.636	-.025	-.129	-.040	-.043
29	-.236	.241	.488	.221	.011	.110	.028
30	.270	.783	.911	.393	.056	.112	.110
31	-.007	.568	.637	.559	.266	.058	.112
32	-.097	.350	.517	.544	.334	.239	.178
33	-.109	.159	.384	.366	.205	.191	.028

$\alpha = 70°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.338	-3.322	-4.223	.954	.975	.204	-.171
2	-4.167	-4.067	-4.816	1.059	1.151	.350	-.164
3	-4.134	-4.005	-4.695	.951	1.111	.545	-.175
4	-3.618	-3.997	-3.934	.759	.815	.591	.002
5	-2.956	-3.343	-3.021	.479	.501	.394	-.134
6	.000.000	.000.000	.000.000	-.235	-.134	-.195	-.091
7	.000.000	.000.000	.000.000	.343	.491	.361	.075
8	.000.000	.000.000	.000.000	-.646	-.555	-.053	-.178
9	.000.000	.000.000	.000.000	-1.647	-1.310	-.271	-.230
10	-1.729	-2.124	-1.860	-1.482	-1.018	-.124	-.111
11	-1.233	-1.512	.000.000	-.925	-.726	-.167	-.238
12	-1.127	-1.032	-.737	-.686	-.445	-.176	-.265
13	-1.716	-.956	-.856	-.458	-.339	-.070	-.223
14	-1.462	-.815	-.678	-.340	-.230	-.114	-.230
15	-1.151	-.314	.304	.161	.126	-.014	-.045
16	-1.311	.002	.195	.212	.027	.037	-.047
17	-1.121	-.441	.143	.136	.030	.025	-.054
18	-1.063	-.050	.076	.079	-.005	-.002	-.180
19	-1.458	-.440	-.271	-.106	-.085	-.077	-.103
20	-2.153	-1.047	-.878	-.488	-.140	-.170	-.288
21	-2.338	-1.174	-1.026	-.556	-.373	-.209	-.257
22	-2.195	-1.119	-1.057	-.650	-.466	-.318	-.270
23	-1.235	-.634	-.674	-.232	-.244	-.197	-.323
24	-.622	-.200	-.032	-.036	-.043	-.051	-.057
25	-1.408	-.394	-1.719	.211	.114	-.440	-.109
26	.291	.747	.562	-.193	.000.000	-.325	-.154
27	.286	.743	.871	-.132	-.114	-.109	-.052
28	.080	.445	.625	-.089	-.127	-.123	-.006
29	-.225	.264	.474	.249	-.043	-.080	-.085
30	.426	.818	.907	.406	.191	.039	.103
31	-.25	.626	.685	.575	.111	-.013	.018
32	-.130	.365	.529	.523	.294	.115	.031
33	-.093	.135	.384	.376	.315	.071	-.059

$\alpha = 75°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.664	-3.584	-4.342	.970	1.042	-.104	-.143
2	-4.410	-4.498	-5.047	1.015	1.142	.091	-.044
3	-4.374	-4.566	-4.832	.906	1.046	.271	-.081
4	-3.785	-4.411	-4.310	.674	.878	-.035	.021
5	-3.032	-3.657	-3.281	.413	.456	.116	.041
6	.000.000	.000.000	.000.000	-.196	-.089	-.061	.089
7	.000.000	.000.000	.000.000	.284	.563	.151	.049
8	.000.000	.000.000	.000.000	-.773	-.417	-.034	-.077
9	.000.000	.000.000	.000.000	-1.850	-1.353	-.058	-.046
10	-1.616	-2.134	-1.618	-1.525	-.921	-.012	-.073
11	-1.300	-1.660	.000.000	-1.091	-.746	-.103	-.114
12	-1.074	-1.035	-.745	-.624	-.406	-.131	-.033
13	-1.039	-.885	-.864	-.431	-.242	-.123	-.038
14	-1.881	-.864	-.606	-.442	-.245	-.102	-.123
15	-1.042	-.392	.326	.155	.051	.013	-.042
16	-1.095	-.046	.180	.046	.010	.011	.122
17	-1.000	-.460	.152	.031	-.058	-.025	-.019
18	-1.091	-.096	.041	.073	.041	0.	.038
19	-1.177	-.486	-.234	-.133	-.072	-.010	-.106
20	-1.722	-.967	-.815	-.443	-.220	-.112	-.169
21	-2.062	-1.160	-1.004	-.644	-.451	-.203	-.276
22	-1.885	-1.020	-.998	-.578	-.369	-.196	-.130
23	-1.006	-.635	-.813	-.263	-.276	-.194	-.178
24	-.540	-.276	-.084	-.097	-.093	-.135	-.114
25	-1.988	-1.152	-1.906	.302	.227	-.449	.048
26	.162	.698	.561	-.163	.000.000	-.139	0.
27	.193	.775	.903	-.173	-.073	-.095	-.012
28	-.014	.614	.617	-.045	-.125	-.120	.045
29	-.306	.256	.513	.135	-.057	-.087	.073
30	.183	.795	.853	.388	.172	0.	.070
31	-.020	.559	.603	.375	.047	-.092	.138
32	-.069	.343	.473	.469	.152	.068	.096
33	-.060	.102	.264	.348	.268	.123	.220

$\alpha = 80°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-4.410	-4.100	-4.673	1.049	1.066	-.023	-.156
2	-4.410	-4.629	-5.055	.960	1.169	-.034	-.312
3	-4.145	-4.435	-4.634	.974	1.077	.103	-.307
4	-3.413	-3.980	-4.021	-.225	-.133	-.133	-.103
5	-2.764	-3.754	-3.179	.455	.497	-.021	-.196
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.284	.536	.042	-.011
8	.000.000	.000.000	.000.000	-.842	-.472	.048	-.079
9	.000.000	.000.000	.000.000	-1.832	-1.219	-.053	-.088
10	-1.553	-2.272	-1.715	-1.510	-.964	.005	-.052
11	-1.143	-1.510	.000.000	-1.021	-.704	.027	-.132
12	-1.029	-.958	-.783	-.611	-.357	-.145	-.185
13	-1.314	-.824	-.648	-.445	-.232	-.010	-.167
14	-1.611	-.762	-.617	-.380	-.286	-.078	-.193
15	-.954	-.447	.293	.114	.012	.056	-.076
16	-.941	-.147	.158	-.005	-.149	-.039	-.129
17	-.986	-.449	.140	.071	-.061	-.025	.011
18	-.817	-.074	.037	-.045	-.106	-.058	-.104
19	-.913	-.435	-.310	-.180	-.138	-.040	-.117
20	-1.497	-.881	-.807	-.421	-.155	-.103	-.270
21	-1.930	-1.085	-1.060	-.547	-.362	-.138	-.308
22	-1.708	-1.009	-1.007	-.531	-.539	-.239	-.239
23	-.950	-.593	-.615	-.301	-.267	-.164	-.238
24	-.494	-.204	-.070	-.112	-.140	-.079	-.047
25	-2.372	-1.432	-1.955	.279	.131	-.334	-.145
26	-.011	.632	.521	-.124	.000.000	-.033	-.142
27	.075	.729	.845	-.131	-.071	-.095	-.017
28	-.126	.633	.608	-.041	-.101	-.075	-.046
29	-.241	.211	.450	.054	-.107	-.138	-.062
30	.096	.737	.728	.031	-.096	-.041	-.086
31	-.104	.615	.547	.316	.065	.028	-.024
32	-.135	.365	.453	.511	.384	.223	.068
33	-.127	.091	.247	.325	.093	-.018	.004

Table 26. - Continued.

(b) $C_{T,S} = 0.80$, $q_S = 19.98$

$\alpha = 5°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.455	.862	.763	-.706	.280	.500	.495
2	.344	.123	.855	.089	.916	1.044	.726
3	.088	-.066	-.097	.449	1.110	1.064	.547
4	-.195	-.491	-.301	.654	1.183	1.091	.437
5	-.517	-.548	-.369	.938	1.033	.775	.425
6	*000.000	*000.000	*000.000	-.329	-.203	-.408	-.465
7	*000.000	*000.000	*000.000	.819	.852	.696	.424
8	*000.000	*000.000	*000.000	.342	.190	.041	-.232
9	*000.000	*000.000	*000.000	-.443	-.648	-.771	-.649
10	-.477	-.906	-1.385	-.638	-.715	-.659	-.525
11	-.459	-.835	*000.000	-.709	-.794	-.593	-.437
12	-.410	-.515	-.537	-.549	-.549	-.418	-.337
13	-.316	-.448	-.406	-.346	-.385	-.392	-.265
14	-.317	-.431	-.414	-.372	-.352	-.281	-.221
15	-.195	-.404	.004	-.131	-.055	-.053	-.073
16	.231	-.151	.231	-.135	-.117	-.055	-.021
17	.258	-.145	.248	-.121	-.115	-.055	-.043
18	.266	.134	.230	-.106	-.068	-.130	-.037
19	.042	-.032	-.078	-.130	+.079	-.030	-.052
20	-.439	-.570	-.565	-.326	-.164	-.167	-.103
21	-.525	-.737	-.736	-.516	-.230	-.250	-.249
22	-.460	-.773	-.700	-.596	-.175	-.205	-.302
23	-.423	-.351	-.244	-.170	-.080	-.137	-.084
24	-.450	.123	.237	-.130	-.068	-.112	-.065
25	.994	1.060	.796	-.855	-.408	-.458	-.359
26	.500	.716	.629	-.904	*000.000	-.699	-.163
27	-.028	.223	.263	-.397	-.289	-.182	-.223
28	-.017	.124	.100	-.277	-.137	-.274	-.138
29	.053	.287	.203	-.122	-.197	-.060	-.033
30	.984	1.019	.965	-.210	-.016	.138	.254
31	.485	.669	.634	-.020	-.039	-.025	.174
32	.260	.641	.516	-.089	-.066	-.009	.266
33	.044	.362	.396	.025	-.078	-.056	-.118

$\alpha = 10°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.920	.446	.185	-.436	.538	.700	.469
2	-.194	-.208	-.392	.282	1.033	1.180	.500
3	-.180	-.525	-.548	.513	1.235	1.268	.624
4	-.475	-.944	-.667	.781	1.178	1.135	.418
5	-.859	-1.218	-.609	.893	1.001	.820	.163
6	*000.000	*000.000	*000.000	-.247	-.180	-.278	-.194
7	*000.000	*000.000	*000.000	.719	.790	.706	.402
8	*000.000	*000.000	*000.000	.207	.033	-.076	-.220
9	*000.000	*000.000	*000.000	-.666	-.991	-1.006	-.887
10	-.550	-1.076	-1.654	-.735	-.921	-.827	-.697
11	-.554	-.990	*000.000	-.757	-.902	-.698	-.497
12	-.707	-.609	-.597	-.523	-.557	-.416	-.361
13	-.331	-.531	-.506	-.343	-.391	-.328	-.277
14	-.369	-.444	-.404	-.309	-.284	-.215	-.228
15	-.079	-.468	.006	.045	-.007	-.066	-.103
16	.115	-.172	.193	0.	.017	-.010	-.065
17	.114	-.143	.246	0.	-.043	.061	-.002
18	.150	.148	.147	-.034	-.005	.069	.001
19	-.211	-.064	-.118	-.085	-.048	.040	-.001
20	-.564	-.594	-.575	-.253	-.147	-.088	-.228
21	-.776	-.880	-.758	-.521	-.220	-.242	-.281
22	-.835	-.864	-.691	-.567	-.142	-.169	-.241
23	-.771	-.389	-.275	-.115	-.002	-.034	-.047
24	-.459	.084	.150	.019	-.029	-.071	-.050
25	1.158	1.083	.720	-.752	-.304	-.297	-.128
26	.497	.880	.721	-.798	*000.000	-.446	-.188
27	.163	.472	.547	-.334	-.138	-.186	-.203
28	.137	.232	.300	-.306	-.149	-.073	-.048
29	.088	.266	.310	-.038	-.131	-.045	.107
30	.974	.965	.882	-.019	-.045	-.056	.286
31	.487	.620	.620	.067	.005	.143	.236
32	.284	.474	.491	.238	.053	+.005	.205
33	.100	.341	.420	.256	.100	.023	.005

$\alpha = 15°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.514	-.607	-.419	-.090	.676	.906	.616
2	-.229	-.823	-1.072	.521	1.177	1.233	.492
3	-.450	-.996	-1.205	.693	1.217	1.196	.361
4	-.8 7	-1.198	-1.227	.808	1.120	.996	.192
5	-.133	-1.021	-.831	.835	.832	.591	.112
6	*000.000	*000.000	*000.000	-.220	-.144	-.238	-.134
7	*000.000	*000.000	*000.000	.711	.717	.612	.414
8	*000.000	*000.000	*000.000	.135	+.216	-.271	-.418
9	*000.000	*000.000	*000.000	-.721	-1.115	-1.238	-1.020
10	-.701	-1.197	-1.780	-.835	-1.016	-.940	-.711
11	-.628	-.993	*000.000	-.777	-.966	-.750	-.594
12	-.470	-.653	-.595	-.524	-.632	-.449	-.432
13	-.476	-.586	-.505	-.312	-.416	-.377	-.346
14	-.536	-.491	-.474	-.331	-.377	-.330	-.274
15	-.134	-.577	.175	.128	.037	.103	-.128
16	.087	-.223	.246	.106	.077	.005	-.028
17	-.044	-.137	.225	.063	.051	.013	-.034
18	-.014	.161	.220	.049	.091	.005	-.008
19	-.176	-.110	-.117	-.036	.020	-.003	-.124
20	-.719	-.643	-.583	-.268	-.227	-.260	-.386
21	-1.043	-.928	-.670	-.550	-.383	-.416	-.490
22	-1.090	-.920	-.659	-.539	-.227	-.583	-.480
23	-1.025	-.447	-.263	-.136	-.014	-.108	-.169
24	-.575	.078	.160	.028	-.028	-.011	-.045
25	1.162	.928	.278	-.574	-.128	-.081	+.023
26	.525	1.015	.774	-.557	*000.000	-.383	-.272
27	.262	.613	.661	-.188	-.068	-.149	-.249
28	.092	.352	.450	-.141	-.069	-.110	-.025
29	.057	.344	.362	.093	-.007	.071	.214
30	.862	.936	.904	.230	.128	.190	.683
31	.607	.633	.664	.321	.238	.256	.286
32	.207	.443	.507	.373	.243	.309	.230
33	.098	.388	.430	.368	.201	.250	.021

$\alpha = 20°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.307	-.592	-1.496	.308	.952	1.171	.348
2	-.599	-1.428	-2.059	.626	1.187	1.155	.334
3	-.910	-1.641	-2.040	.667	1.178	1.150	.264
4	-1. 92	-1.972	-1.833	.676	1.010	.829	.071
5	-1.107	-1.920	-1.046	.717	.698	.423	-.114
6	*000.000	*000.000	*000.000	-.168	-.155	-.165	-.142
7	*000.000	*000.000	*000.000	.602	.580	.459	.258
8	*000.000	*000.000	*000.000	-.014	-.446	-.485	-.618
9	*000.000	*000.000	*000.000	-.814	-1.478	-1.496	-1.269
10	-.900	-1.422	-2.218	-.890	-1.206	-1.140	-.921
11	-.666	-1.094	*000.000	-.833	-1.094	-.837	-.705
12	-.904	-.688	-.641	-.550	-.699	-.568	-.547
13	-.544	-.555	-.426	-.373	-.469	-.394	-.414
14	-.670	-.501	-.412	-.321	-.418	-.370	-.384
15	-.258	-.695	.275	.149	.179	.142	-.313
16	-.304	-.271	.219	.152	.169	.107	-.116
17	-.285	-.115	.273	.168	.094	.124	.025
18	-.222	.160	.150	.114	.096	.085	-.026
19	-.369	-.110	-.113	.019	-.072	.042	-.103
20	-.964	-.620	-.539	-.303	-.353	-.428	-.400
21	-1.350	-.942	-.623	-.622	-.526	-.592	-.486
22	-1.515	-.938	-.608	-.672	-.430	-.587	-.571
23	-1.356	-.426	-.270	-.181	-.014	-.128	-.282
24	-.614	.070	.020	.090	-.013	.035	-.042
25	1.044	.699	-.272	-.266	.077	.098	.077
26	.911	1.072	.690	-.502	*000.000	-.239	-.328
27	.340	.747	.758	-.159	-.002	-.124	-.329
28	.155	.448	.496	-.075	-.069	-.044	-.062
29	.025	.301	.493	.256	.150	.152	.192
30	.747	.907	.888	.451	.275	.452	.700
31	.416	.659	.639	.511	.337	.379	.284
32	.197	.469	.543	.532	.325	.462	.297
33	.027	.363	.424	.497	.292	.292	-.084

$\alpha = 25°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-.49	-1.139	-2.056	.610	1.014	1.058	.218
2	-1.008	-1.881	-2.671	.847	1.229	1.155	.139
3	-1.235	-2.004	-2.648	.833	1.163	1.002	.163
4	-1.334	-2.231	-2.147	.679	.887	.585	-.158
5	-1.332	-2.028	-1.142	.587	.532	.164	-.284
6	*000.000	*000.000	*000.000	-.223	-.095	-.236	-.131
7	*000.000	*000.000	*000.000	.516	.520	.433	.130
8	*000.000	*000.000	*000.000	-.201	-.656	-.715	-.664
9	*000.000	*000.000	*000.000	-1.228	-1.849	-1.719	-1.290
10	-.932	-1.589	-1.987	-1.168	-1.443	-1.355	-.901
11	-.719	-1.134	*000.000	-.953	-1.169	-1.019	-.763
12	-1.104	-.711	-.614	-.687	-.778	-.676	-.594
13	-.693	-.583	-.439	-.420	-.572	-.539	-.441
14	-.859	-.580	-.393	-.454	-.509	-.454	-.341
15	-.373	-.741	.275	.271	.222	.166	-.330
16	-.241	-.319	.340	.254	.192	.071	.008
17	-.285	-.140	.296	.249	.129	.065	.049
18	-.401	.123	.144	.164	.083	+.001	-.035
19	-.827	-.145	-.092	-.027	-.066	.018	-.117
20	-1.198	-.690	-.519	-.507	-.490	-.438	-.335
21	-1.694	-.900	-.577	-.769	-.742	-.725	-.473
22	-1.662	-.785	-.448	-.770	-.634	-.681	-.434
23	-1.454	-.396	-.240	-.278	-.085	-.202	-.183
24	-.649	.092	-.030	.089	-.012	-.041	-.001
25	1.063	.435	.544	.028	.205	.156	-.094
26	1.028	1.068	.736	-.371	*000.000	-.208	-.276
27	.526	.886	.888	-.133	-.049	+.165	-.245
28	.193	.530	.661	-.013	-.078	-.137	-.042
29	.018	.391	.676	.395	.340	.143	.215
30	.763	.908	.964	.698	.553	.597	.599
31	.342	.659	.737	.619	.473	.500	.410
32	.166	.669	.636	.555	.498	.348	.287
33	0.	.292	.371	.441	.377	.175	-.002

$\alpha = 30°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-.354	-1.440	-2.323	.767	1.143	1.192	.019
2	-1.371	-2.182	-2.938	.923	1.242	1.164	+.410
3	-1.489	-2.252	-2.741	.903	1.084	1.021	+.401
4	-1.739	-2.386	-2.084	.843	.852	.687	+.474
5	-1.544	-1.894	-.883	.499	.434	.184	+.675
6	*000.000	*000.000	*000.000	-.200	-.058	-.143	+.014
7	*000.000	*000.000	*000.000	.358	.427	.489	+.390
8	*000.000	*000.000	*000.000	-.509	-.755	-.655	+.797
9	*000.000	*000.000	*000.000	-1.574	-1.865	-1.670	-1.206
10	-1.029	-1.312	-1.367	-1.366	-1.571	-1.260	-1.065
11	-.871	-1.264	*000.000	-1.181	-1.320	+.916	+.822
12	-1.181	-.997	-.993	-.767	-.836	+.551	+.614
13	-.803	-.701	-.529	-.472	-.600	+.417	+.395
14	-.943	-.627	-.472	-.477	-.548	+.443	+.388
15	-.455	-.978	.485	.417	.364	.359	+.027
16	-.615	-.341	.306	.379	.287	.229	+.266
17	-.573	-.283	.266	.325	.198	.140	+.092
18	-.534	-.019	.122	.238	.096	.074	+.216
19	-.658	-.292	-.223	+.032	-.127	+.061	+.102
20	-1.325	-.780	-.554	-.625	-.606	+.458	+.395
21	-1.823	-.771	-.580	-.935	-.909	+.731	+.587
22	-2.142	-.758	-.400	-.988	-.876	+.756	+.567
23	-.002	.222	.442	.456	.399	.325	+.084
24	-.683	-.206	-.040	.098	-.012	+.017	+.160
25	.886	.185	-.959	.320	.362	.324	+.151
26	1.047	1.001	.703	-.343	*000.000	+.086	+.342
27	.658	.937	.954	-.087	.014	+.123	+.145
28	.247	.589	.680	.116	-.032	+.013	+.100
29	.009	.620	.541	.497	.357	.303	.221
30	.667	.876	.971	.861	.721	.658	.466
31	.319	.657	.744	.727	.644	.587	.399
32	.148	.449	.669	.617	.591	.423	.291
33	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000

Table 26. - Continued.

(b) $C_{T,s} = 0.80$, $q_s = 19.98$

$\alpha = 35°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	-.743	-1.474	-2.999	.969	1.185	1.177	-.154
2	-1.625	-2.744	-3.548	.995	1.160	1.107	-.434
3	-1.629	-2.773	-3.343	.859	.991	.900	-.476
4	-2.139	-2.743	-2.836	.709	.705	.585	-.641
5	-1.743	-2.166	-1.118	.433	.280	.116	-.723
6	*000.000	*000.000	*000.000	-.163	-.070	-.092	-.080
7	*000.000	*000.000	*000.000	.368	.433	.525	-.429
8	*000.000	*000.000	*000.000	-.699	-.962	-.697	-.787
9	*000.000	*000.000	*000.000	-1.888	-2.253	-1.687	-1.186
10	-1.125	-1.751	-1.393	-1.593	-1.717	-1.261	-.911
11	-.907	-1.231	*000.000	-1.203	-1.328	-.836	-.714
12	-1.588	-1.140	-.974	-.824	-.959	-.527	-.573
13	-.920	-.715	-.597	-.545	-.666	-.422	-.457
14	-1.170	-.668	-.507	-.483	-.637	-.464	-.416
15	-.584	-.935	.404	.525	.384	.295	-.222
16	-.749	-.249	.329	.395	.262	.156	.002
17	-.777	-.354	.276	.380	.193	.222	-.045
18	-.718	.093	.216	.327	.126	.081	-.085
19	-.772	-.304	.247	0.	-.179	.125	-.227
20	-1.672	-.765	-.612	-.612	-.703	-.461	-.345
21	-1.981	-.829	-.674	-.960	-1.082	-.838	-.618
22	-2.328	-.799	-.544	-1.004	-1.016	-.858	-.720
23	-1.644	-.501	-.389	-.336	-.338	-.412	-.456
24	-.747	-.273	-.089	.156	-.002	-.013	-.171
25	.633	-.281	-1.442	.810	.424	.345	-.120
26	1.044	.938	.491	-.046	*000.000	-.067	-.357
27	.705	.999	1.005	-.030	-.033	-.025	.042
28	.254	.629	.776	.276	-.051	-.036	.112
29	-.034	.430	.570	.570	.442	.352	.200
30	.628	.923	1.013	.962	.868	.624	.362
31	.376	.673	.747	.810	.693	.462	.251
32	.109	.439	.547	.640	.586	.419	.222
33	-.016	.247	.376	.476	.367	.216	.077

$\alpha = 40°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	-1.346	-2.954	-3.983	1.032	1.241	1.194	-.515
2	-2.336	-3.449	-4.567	.936	1.106	.984	-.732
3	-2.528	-3.402	-4.147	.748	.901	.850	-.711
4	-2.504	-3.391	-3.210	.497	.546	.458	-.830
5	-2.117	-2.437	-1.385	.237	.127	.028	-.792
6	*000.000	*000.000	*000.000	-.155	-.013	-.061	-.030
7	*000.000	*000.000	*000.000	.197	.292	.465	-.553
8	*000.000	*000.000	*000.000	-1.007	-1.085	-.683	-.912
9	*000.000	*000.000	*000.000	-2.070	-2.180	-1.537	-1.049
10	-1.234	-1.574	-1.567	-1.852	-1.772	-1.073	-.880
11	-1.043	-1.407	*000.000	-1.496	-1.432	-.757	-.698
12	-1.602	-1.022	-1.003	-.960	-.862	-.498	-.468
13	-1.139	-.838	-.635	-.638	-.684	-.457	-.477
14	-1.466	-.726	-.600	-.536	-.626	-.390	-.382
15	-.439	-.960	.439	.437	.330	.296	.020
16	-.567	-.178	.333	.398	.299	.287	.013
17	-.549	-.304	.240	.357	.269	.199	-.073
18	-.476	.014	.166	.291	.158	.092	-.135
19	-.477	-.458	-.207	-.045	-.176	.141	-.150
20	-1.700	-.864	-.732	-.788	-.740	-.525	-.429
21	-2.245	-.915	-.749	-1.118	-1.098	-.831	-.540
22	-2.417	-.798	-.610	-1.138	-1.046	-.885	-.538
23	-1.657	-.599	-.514	-.436	-.513	-.560	-.528
24	-.884	-.400	-.158	.089	.020	-.081	-.204
25	.328	-.742	-1.939	.609	.631	.466	-.143
26	1.119	.834	.603	-.159	*000.000	-.009	-.392
27	.730	1.015	.989	-.050	-.013	-.075	.112
28	.270	.704	.786	.579	.012	-.005	.187
29	-.183	.499	.630	.542	.479	.318	.164
30	.543	.933	.994	.919	.979	.645	.198
31	.250	.677	.740	.719	.783	.443	.340
32	.084	.475	.631	.564	.617	.388	.258
33	-.041	.229	.445	.446	.391	.302	.032

$\alpha = 45°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	-1.934	-3.432	-4.642	1.101	1.258	1.120	-.657
2	-3.044	-4.191	-5.300	.858	1.066	.927	-.866
3	-3.168	-3.962	-4.775	.667	.830	.735	-1.045
4	-2.793	-3.521	-3.373	.376	.414	.321	-.882
5	-2.230	-2.638	-1.621	.037	.022	-.146	-.891
6	*000.000	*000.000	*000.000	-.139	-.032	-.064	-.020
7	*000.000	*000.000	*000.000	.060	-.013	.403	-.510
8	*000.000	*000.000	*000.000	-1.174	-1.182	-.631	-.729
9	*000.000	*000.000	*000.000	-2.329	-2.296	-1.486	-.880
10	-1.424	-1.768	-1.421	-1.963	-1.833	-1.069	-.710
11	-1.105	-1.512	*000.000	-1.479	-1.357	-.727	-.582
12	-1.741	-1.102	-.949	-.940	-.892	-.522	-.358
13	-1.219	-.838	-.669	-.687	-.642	-.513	-.410
14	-1.719	-.920	-.657	-.614	-.579	-.443	-.388
15	-1.027	-.966	.445	.472	.278	.322	-.118
16	-1.158	-.207	.295	.434	.304	.225	-.059
17	-1.123	-.435	.254	.378	.270	.191	-.062
18	-1.098	-.020	.179	.251	.168	.096	-.106
19	-1.174	-.441	-.267	-.093	-.154	.128	-.124
20	-1.937	-.968	-.811	-.800	-.733	-.553	-.322
21	-2.488	-1.030	-.888	-1.084	-.999	-.734	-.514
22	-2.606	-.940	-.801	-1.081	-1.056	-.850	-.593
23	-1.341	-.722	-.645	-.456	-.564	-.644	-.532
24	-.847	-.390	-.151	.055	-.012	-.128	-.309
25	.058	-1.234	-2.366	.711	.632	.506	-.069
26	1.106	.806	.589	-.158	*000.000	-.028	-.327
27	.747	1.044	1.009	-.085	-.029	-.060	.106
28	.320	.688	.791	.690	.043	.047	.144
29	-.076	.465	.608	.474	.422	.277	.198
30	.457	.928	.998	1.050	1.060	.471	.108
31	.264	.675	.740	.724	.744	.389	.165
32	.100	.457	.644	.606	.568	.246	.188
33	-.011	.211	.393	.426	.337	.230	.039

$\alpha = 50°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	-2.642	-4.171	-5.346	1.128	1.251	1.099	-.635
2	-3.837	-4.740	-5.746	.801	1.026	.978	-.899
3	-3.741	-4.474	-5.121	.592	.807	.761	-.600
4	-3.433	-4.078	-3.873	.255	.360	.274	-.880
5	-2.714	-3.012	-1.801	.048	-.057	-.097	-.704
6	*000.000	*000.000	*000.000	-.097	.002	.009	.030
7	*000.000	*000.000	*000.000	-.112	-.106	.378	-.331
8	*000.000	*000.000	*000.000	-1.304	-1.228	-.527	-.627
9	*000.000	*000.000	*000.000	-2.478	-2.277	-1.178	-.615
10	-1.609	-1.866	-2.003	-2.104	-1.816	-.941	-.626
11	-1.323	-1.636	*000.000	-1.564	-1.356	-.546	-.422
12	-1.880	-1.184	-.917	-.948	-.771	-.333	-.413
13	-1.720	-1.003	-.733	-.744	-.634	-.429	-.337
14	-1.962	-.944	-.708	-.656	-.578	-.412	-.341
15	-1.060	-.961	.473	.400	.197	.319	-.130
16	-1.298	-.159	.278	.424	.327	.216	.033
17	-1.384	-.577	.206	.385	.326	.202	.067
18	-1.202	-.028	.111	.251	.203	.115	-.092
19	-1.517	-.537	-.323	-.118	-.124	.147	-.072
20	-2.274	-1.194	-.978	-.907	-.797	-.486	-.510
21	-2.418	-1.122	-1.046	-1.048	-.981	-.803	-.628
22	-2.436	-1.044	-.995	-1.096	-.907	-.702	-.497
23	-1.307	-.849	-.717	-.500	-.619	-.642	-.390
24	-.853	-.444	-.190	.040	-.018	-.070	-.334
25	-.495	-1.605	-2.750	.812	.709	.489	-.310
26	.920	.785	.449	-.140	*000.000	-.016	-.238
27	.682	1.034	.998	-.088	-.017	-.075	.218
28	.230	.735	.860	.680	.074	.207	.238
29	-.161	.467	.866	.451	.362	.278	.194
30	.379	.955	1.061	1.060	1.119	.527	.327
31	.121	.730	.865	.741	.718	.441	.365
32	.024	.506	.666	.562	.563	.410	.135
33	-.039	.185	.377	.403	.309	.155	.171

$\alpha = 55°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	-3.641	-4.934	-5.851	1.082	1.227	.751	-.822
2	-4.321	-5.129	-5.945	.699	.973	.655	-.778
3	-4.318	-4.917	-5.440	.499	.704	.438	-.567
4	-3.772	-4.485	-4.115	.147	.320	.234	-.698
5	-3.012	-3.257	-2.039	-.074	-.060	.029	-.484
6	*000.000	*000.000	*000.000	-.024	-.012	.010	-.132
7	*000.000	*000.000	*000.000	-.376	-.193	.371	-.289
8	*000.000	*000.000	*000.000	-1.473	-1.202	-.346	-.507
9	*000.000	*000.000	*000.000	-2.665	-2.318	-1.189	-.537
10	-1.649	-1.927	-2.119	-2.099	-1.642	-.703	-.412
11	-1.329	-1.677	*000.000	-1.558	-1.204	-.522	-.478
12	-1.857	-1.238	-.888	-.941	-.711	-.344	-.375
13	-1.723	-1.075	-.786	-.721	-.587	-.404	-.348
14	-2.006	-.959	-.760	-.621	-.428	-.298	-.329
15	-1.152	-.855	.373	.397	.173	.207	-.055
16	-1.359	-.141	.232	.421	.303	.216	-.026
17	-1.201	-.556	.184	.361	.359	.173	-.118
18	-1.206	-.141	.043	.282	.267	.066	-.049
19	-1.401	-.590	-.385	-.113	.025	.071	-.148
20	-2.217	-1.183	-1.015	-.842	-.550	-.366	-.329
21	-2.298	-1.220	-1.119	-.988	-.822	-.597	-.452
22	-2.155	-1.187	-1.112	-.951	-.542	-.564	-.483
23	-1.165	-.833	-.723	-.445	-.482	-.366	-.425
24	-.781	-.413	-.184	.041	-.040	-.051	-.158
25	-1.186	-1.767	-2.867	.835	.753	.272	-.296
26	.706	.741	.441	-.068	*000.000	.017	-.251
27	.579	.987	.944	-.072	-.020	-.004	.105
28	.222	.685	.796	.728	.171	.193	.068
29	-.179	.420	.647	.468	.414	.197	.084
30	.382	.970	1.038	1.055	1.140	.534	.273
31	.097	.669	.693	.704	.706	.443	.121
32	.030	.452	.567	.523	.530	.313	.145
33	-.025	.177	.335	.397	.324	.158	.072

$\alpha = 60°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	-4.351	-5.277	-5.866	1.109	1.268	.690	-.419
2	-5.011	-5.424	-6.209	.610	.893	.489	-.549
3	-4.965	-5.152	-5.412	.436	.680	.208	-.557
4	-4.288	-4.621	-4.454	.111	.306	.143	-.375
5	-3.222	-3.413	-2.246	-.217	-.123	-.030	-.336
6	*000.000	*000.000	*000.000	-.031	.033	.003	-.001
7	*000.000	*000.000	*000.000	-.466	-.213	.429	-.139
8	*000.000	*000.000	*000.000	-1.434	-.997	-.235	-.196
9	*000.000	*000.000	*000.000	-2.623	-2.042	-.878	-.343
10	-1.675	-2.278	-2.586	-2.136	-1.567	-.598	-.341
11	-1.252	-1.813	*000.000	-1.575	-1.116	-.418	-.185
12	-1.540	-1.209	-.795	-.863	-.447	-.244	-.184
13	-1.717	-1.092	-.793	-.687	-.419	-.299	-.270
14	-1.965	-.998	-.799	-.592	-.358	-.262	-.190
15	-.967	-.741	.438	.399	.309	.299	-.033
16	-1.113	-.037	.226	.381	.370	.226	.037
17	-.957	-.525	.174	.343	.297	.190	-.011
18	-.988	-.041	.090	.206	.290	.102	-.037
19	-1.234	-.500	-.350	-.115	.077	.073	-.125
20	-1.814	-1.029	-.978	-.743	-.302	-.401	-.235
21	-1.877	-1.182	-1.165	-.964	-.721	-.569	-.423
22	-1.747	-1.120	-1.133	-.968	-.606	-.533	-.472
23	-.994	-.752	-.696	-.440	-.417	-.487	-.447
24	-.628	-.369	-.141	-.005	-.078	-.099	-.093
25	-2.158	-2.391	-3.054	.831	.788	.086	-.385
26	.374	.544	.426	-.128	*000.000	-.028	-.153
27	.361	1.024	1.003	-.010	-.076	.004	.123
28	.165	.703	.852	.705	.158	.151	.177
29	-.130	.393	.626	.389	.397	.193	.164
30	.335	.984	.994	.940	1.044	.518	.118
31	.072	.760	.678	.678	.683	.401	.211
32	.084	.467	.535	.503	.501	.296	.149
33	-.044	.212	.356	.374	.329	.218	.133

Table 26. - Continued.

(b) $C_{T,S} = 0.80$, $q_s = 19.98$

$\alpha = 65°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-5.193	-5.946	-6.116	1.133	1.211	.449	-.270
2	-5.393	-6.635	-6.807	.522	.818	.280	-.525
3	-4.916	-5.837	-5.484	.402	.586	.415	-.278
4	-4. 27	-5.333	-4.831	.036	.231	.064	-.366
5	-3.075	-3.693	-2.331	-.211	-.123	.054	-.359
6	.000.000	.000.000	.000.000	-.068	.023	-.016	.072
7	.000.000	.000.000	.000.000	-.519	-.235	.263	-.241
8	.000.000	.000.000	.000.000	-1.587	-1.251	-.300	-.310
9	.000.000	.000.000	.000.000	-2.743	-2.242	-.781	-.313
10	-1.643	-2.495	-2.953	-2.175	-1.546	-.395	-.190
11	-1.299	-1.968	.000.000	-1.639	-1.163	-.418	-.341
12	-1.155	-1.199	-.884	-.880	-.597	-.311	-.217
13	-1.649	-.924	-.748	-.637	-.366	-.204	-.266
14	-1.710	-.912	-.813	-.546	-.328	-.238	-.228
15	-.919	-.655	.430	.483	.163	.317	.044
16	-1.014	-.078	.192	.438	.345	.174	.005
17	-.960	-.540	.127	.339	.302	.164	-.041
18	-.908	-.056	.009	.238	.278	.100	-.064
19	-.944	-.529	-.470	-.146	-.064	.059	-.151
20	-1.769	-1.073	-.907	-.731	-.378	-.454	-.399
21	-1.846	-1.233	-1.271	-1.018	-.703	-.504	-.419
22	-1.833	-1.862	-1.128	-.900	-.503	-.502	-.431
23	-.972	-.780	-.766	-.439	-.415	-.392	-.423
24	-.812	-.328	-.135	-.015	-.104	-.132	-.190
25	-1.149	-2.758	-3.267	.975	.800	.055	-.427
26	-.216	.398	.374	-.187	.000.000	-.001	-.165
27	-.005	.866	.954	.023	-.017	.055	.148
28	-.053	.836	.915	.827	.222	.194	.181
29	-.235	.290	.537	.415	.327	.152	.102
30	.035	.930	.864	1.037	1.075	.640	.015
31	-.112	.632	.410	.700	.595	.450	.152
32	-.089	.414	.371	.523	.422	.277	.188
33	-.016	.143	.237	.357	.224	.171	.106

$\alpha = 70°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-5.274	-6.371	-5.800	.999	1.130	.263	-.087
2	-5.269	-6.985	-6.874	.372	.815	.114	-.273
3	-4.821	-6.352	-6.127	.250	.574	.135	-.307
4	-3.537	-5.622	-4.833	-.108	.183	.055	-.225
5	-2.624	-3.587	-2.526	-.344	-.162	.053	-.134
6	.000.000	.000.000	.000.000	-.047	.018	0.	.115
7	.000.000	.000.000	.000.000	-.590	-.248	.220	-.173
8	.000.000	.000.000	.000.000	-1.749	-1.136	-.208	-.136
9	.000.000	.000.000	.000.000	-2.478	-1.653	-.472	-.198
10	-1.458	-2.430	-2.983	-2.280	-1.424	-.357	-.115
11	-1.119	-1.774	.000.000	-1.545	-.855	-.371	-.267
12	-1.218	-1.153	-.905	-.856	-.527	-.239	-.173
13	-1.428	-.953	-.823	-.686	-.404	-.251	-.197
14	-1.417	-1.004	-.900	-.733	-.538	-.302	-.280
15	-.759	-.656	.347	.273	.152	.251	-.036
16	-.943	-.111	.145	.305	.217	.104	-.047
17	-.704	-.529	.098	.307	.312	.141	-.033
18	-.678	-.025	.026	.248	.349	.175	-.028
19	-.842	-.443	-.386	-.124	.021	.052	-.142
20	-1.375	-.984	-.918	-.703	-.368	-.417	-.311
21	-1.401	-1.129	-1.191	-.787	-.568	-.380	-.407
22	-1.155	-.983	-1.035	-.832	-.698	-.581	-.407
23	-.645	-.766	-.572	-.446	-.360	-.295	-.281
24	-.445	-.269	-.135	-.123	-.073	-.162	-.136
25	-3.479	-3.152	-3.027	.882	.745	.082	-.127
26	-.717	.125	.495	-.263	.000.000	-.044	-.170
27	-.222	.557	.912	-.006	-.015	.061	.103
28	-.020	.425	.722	.558	.086	.066	.130
29	-.132	.246	.445	.302	.281	.071	.172
30	.240	.876	.601	.938	.991	.500	.102
31	-.065	.644	.443	.670	.636	.341	.179
32	.128	.413	.392	.483	.439	.310	.214
33	-. 25	.072	.200	.247	.241	.164	.090

$\alpha = 75°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-4. 77	-5.347	-5.267	1.066	1.176	.364	-.069
2	-3.686	-5.421	-5.532	.653	.876	.096	-.065
3	-3.526	-5.524	-5.388	.554	.905	.359	.048
4	-2.628	-4.072	-3.954	.190	.485	.171	-.050
5	-1.742	-2.335	-1.863	-.190	.081	.170	-.110
6	.000.000	.000.000	.000.000	-.100	-.071	-.005	-.039
7	.000.000	.000.000	.000.000	-.244	.341	.022	-.094
8	.000.000	.000.000	.000.000	-1.441	-.776	-.099	-.128
9	.000.000	.000.000	.000.000	-2.444	-1.457	-.265	-.188
10	-1.158	-1.399	-1.388	-1.974	-1.039	-.107	-.165
11	-.958	-1.377	.000.000	-1.259	-.662	-.025	-.168
12	-1.484	-1.062	-1.027	-.742	-.371	-.225	-.256
13	-.829	-.785	-.681	-.513	-.162	-.053	-.094
14	-.948	-.726	-.800	-.485	-.300	-.218	-.282
15	-.505	-.648	.238	.311	.118	.283	-.066
16	-.634	-.056	.213	.369	.391	.231	-.050
17	-.608	-.430	.101	.339	.255	.147	-.072
18	-.509	.003	.088	.325	.377	.149	-.040
19	-.640	-.466	-.358	-.155	-.050	.043	-.215
20	-1.015	-.814	-.745	-.571	-.415	-.276	-.298
21	-.977	-.843	-.941	-.635	-.412	-.208	-.304
22	-.719	-.647	-.867	-.606	-.390	-.312	-.333
23	-.492	-.545	-.643	-.376	-.282	-.273	-.293
24	-.332	-.155	-.056	-.183	-.117	-.158	-.132
25	-3.491	-3.224	-2.529	.838	.625	-.067	-.009
26	-.739	-.127	.484	-.144	.000.000	.037	-.124
27	-.312	.346	.879	-.113	-.059	.010	-.058
28	.022	.391	.847	.755	.044	.142	.071
29	-.106	.237	.431	.352	.241	.157	.122
30	.229	.770	.592	1.004	1.100	.656	.162
31	.042	.516	.379	.653	.578	.307	.156
32	.140	.341	.410	.528	.452	.384	.218
33	.127	.161	.290	.253	.196	.207	.001

Table 26. - Continued.

(c) $C_{T,S} = 0.60$, $q_s = 21.77$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.479	.711	.480	-.223	.456	.467	.389
2	.244	.060	-.076	.429	1.126	1.190	.877
3	-.035	-.202	-.226	.592	1.172	1.136	.902
4	-.191	-.741	-.646	.764	1.147	1.069	.847
5	-.432	-.985	-.862	.742	.912	.693	.471
6	.000,000	.000,000	.000,000	-.343	-.306	-.445	-.456
7	.000,000	.000,000	.000,000	.535	-.711	.583	.433
8	.000,000	.000,000	.000,000	-.092	-.182	-.279	-.360
9	.000,000	.000,000	.000,000	-.898	-1.106	-1.145	-1.036
10	-.620	-.988	-1.093	-.978	-1.012	-1.046	-.904
11	-.663	-.936	.000,000	-.876	-.968	-.823	-.686
12	-1.103	-.755	-.654	-.663	-.707	-.586	-.558
13	-.634	-.631	-.528	-.433	-.455	-.410	-.405
14	-.626	-.509	-.417	-.388	-.359	-.325	-.291
15	-.252	-.199	-.085	-.029	-.015	-.001	-.004
16	.107	-.158	.158	-.008	-.027	-.042	-.085
17	.041	-.170	.240	.020	.020	.003	-.046
18	.142	.071	.171	-.043	-.035	-.062	-.073
19	-.147	-.153	-.097	-.098	-.045	-.048	-.088
20	-.716	-.716	-.573	-.268	-.160	-.212	-.249
21	-1.456	-1.031	-.871	-.520	-.299	-.366	-.404
22	-1.123	-.988	-.773	-.573	-.217	-.274	-.358
23	-.910	-.401	-.255	-.132	-.077	-.107	-.040
24	-.583	.071	.156	-.147	-.059	-.096	-.036
25	.266	1.089	.579	-.663	-.321	-.318	-.259
26	-.110	.643	.567	-.695	.000,000	-.674	.021
27	-.144	.171	.155	-.299	-.103	-.294	-.326
28	-.113	.035	.067	-.290	-.217	-.194	-.198
29	.010	.172	.181	-.070	-.036	-.079	-.045
30	.808	.936	.877	.011	.061	-.011	.275
31	.414	.544	.566	-.004	-.064	.049	.110
32	.174	.409	.449	.028	.053	.061	.183
33	-.008	.315	.341	.115	.015	.071	-.025

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.726	.211	-.342	.070	.959	1.005	.769
2	-.045	-.639	-1.021	.600	1.220	1.233	.890
3	-.371	-.768	-1.016	.665	1.223	1.145	.795
4	-.792	-1.840	-1.445	.684	1.062	.977	.618
5	-.939	-1.660	-1.552	.653	.756	.576	.299
6	.000,000	.000,000	.000,000	-.222	-.158	-.193	-.182
7	.000,000	.000,000	.000,000	.365	.342	.472	.310
8	.000,000	.000,000	.000,000	-.368	-.474	-.550	-.610
9	.000,000	.000,000	.000,000	-1.279	-1.473	-1.513	-1.408
10	-.815	-1.235	-1.343	-1.300	-1.302	-1.251	-1.113
11	-.744	-1.113	.000,000	-1.093	-1.181	-.999	-.870
12	-1.124	-.776	-.699	-.743	-.796	-.683	-.613
13	-.530	-.612	-.543	-.469	-.495	-.508	-.465
14	-.593	-.555	-.462	-.414	-.379	-.437	-.363
15	-.208	-.242	.056	.004	.127	-.006	-.087
16	-.638	-.156	.192	.071	.189	-.031	-.043
17	-.629	-.169	.248	.003	.075	.041	-.009
18	-.011	.102	.172	-.030	.047	-.043	-.071
19	-.193	-.191	-.147	-.092	-.047	-.029	-.117
20	-.869	-.729	-.660	-.348	-.210	-.456	-.362
21	-1.243	-.993	-.804	-.601	-.335	-.599	-.518
22	-1.341	-.943	-.749	-.644	-.300	-.576	-.482
23	-1.109	-.428	-.292	-.153	-.018	-.133	-.204
24	-.416	-.069	.115	-.066	-.037	-.039	-.070
25	1.051	1.022	.331	-.455	-.062	-.140	-.049
26	.773	.486	.627	-.399	.000,000	-.437	-.037
27	.147	.471	.406	-.187	-.118	-.194	-.213
28	.061	.214	.307	-.148	-.115	-.138	-.040
29	.445	.270	.294	.038	.016	.091	.103
30	.670	.969	.803	.215	.135	.416	.409
31	.629	.622	.596	.187	.113	.249	.289
32	.244	.484	.503	.274	.201	.254	.450
33	.092	.341	.372	.242	.155	.325	.042

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.293	-.435	-1.199	.481	1.075	1.153	.788
2	-.583	-1.362	-1.965	.669	1.245	1.179	.641
3	-1.014	-1.410	-2.440	.618	1.171	1.116	.607
4	-.120	-.192	-.146	-.115	-.032	-.145	-.056
5	-1.200	-2.200	-2.039	.315	.442	.258	-.062
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.240	.409	.452	-.180
8	.000,000	.000,000	.000,000	-.644	-.855	-.966	-1.054
9	.000,000	.000,000	.000,000	-1.563	-2.015	-1.993	-1.841
10	-1.020	-1.514	-1.546	-1.502	-1.686	-1.617	-1.415
11	-.493	-1.299	.000,000	-1.200	-1.392	-1.197	-1.101
12	-1.167	-.769	-.544	-.728	-.853	-.745	-.696
13	-.318	-.215	.243	.196	.103	.126	-.061
14	-.747	-.492	-.456	-.466	-.534	-.484	-.520
15	-.298	-.459	.199	.235	.231	.129	-.265
16	-.275	-.244	.279	.254	.213	.158	-.084
17	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
18	-.299	-.139	.171	.158	.082	.044	.038
19	-.375	-.198	-.145	-.019	-.117	.057	-.139
20	-1.083	-.771	-.631	-.508	-.443	-.601	-.540
21	-1.456	-.979	-.770	-.701	-.651	-.752	-.651
22	-1.758	-.985	-.703	-.705	-.547	-.803	-.682
23	-1.071	-.441	-.262	-.126	-.073	-.261	-.383
24	-.722	.047	.090	.014	-.041	-.089	-.092
25	1.008	.744	-.277	.094	.212	.211	.154
26	.473	1.024	.594	-.267	.000,000	-.147	-.127
27	.401	.440	.620	-.102	-.041	-.129	-.094
28	.109	.353	.429	.012	-.043	-.060	.200
29	.037	.348	.415	.342	.254	.249	.238
30	.707	.876	.876	.528	.317	.589	.567
31	.473	.638	.634	.548	.394	.424	.472
32	.141	.514	.560	.482	.432	.468	.456
33	.002	.376	.417	.434	.329	.404	-.061

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.174	-1.481	-2.807	.698	1.299	1.281	.727
2	-1.253	-2.392	-3.501	.548	1.152	1.014	.460
3	-1.430	-2.423	-3.378	.460	.988	.843	.197
4	-.678	-2.937	-3.256	.297	.692	.467	-.086
5	-1.406	-2.900	-2.693	.097	.268	-.016	-.409
6	.000,000	.000,000	.000,000	-.057	.023	-.023	-.077
7	.000,000	.000,000	.000,000	.165	.023	-.238	-.534
8	.000,000	.000,000	.000,000	-1.009	-1.253	-1.480	-1.518
9	.000,000	.000,000	.000,000	-1.996	-2.422	-2.453	-2.201
10	-1.155	-1.675	-1.740	-1.658	-1.916	-1.921	-1.624
11	-.842	-1.306	.000,000	-1.310	-1.521	-1.323	-1.163
12	-1.248	-.845	-.810	-.860	-1.021	-.898	-.777
13	-.425	-.733	-.613	-.571	-.746	-.719	-.614
14	-.996	-.652	-.568	-.494	-.627	-.578	-.547
15	-.351	-.515	.333	.393	.393	.260	-.247
16	-.540	-.247	.275	.395	.295	.205	-.002
17	-.569	-.238	.268	.357	.227	.166	-.066
18	-.574	-.106	.126	.254	.119	.016	-.088
19	-.457	-.237	-.242	-.037	-.186	.018	-.122
20	-1.423	-.805	-.702	-.651	-.681	-.714	-.502
21	-1.966	-1.120	-.858	-.923	-.902	-.884	-.744
22	-2.178	-1.036	-.751	-.880	-.825	-.826	-.705
23	-1.821	-.507	-.321	-.328	-.218	-.342	-.417
24	-.818	.032	.070	.134	.049	.037	-.071
25	.836	.221	-1.159	.448	.579	.640	.443
26	1.024	1.043	.863	-.102	.000,000	-.017	-.145
27	.557	.843	.751	-.071	.014	-.076	.063
28	.229	.524	.609	.444	.067	.118	.352
29	.034	.454	.509	.515	.454	.408	.396
30	.663	.964	.960	.966	.854	.860	.744
31	.362	.713	.742	.771	.658	.719	.558
32	.145	.490	.586	.585	.528	.455	.427
33	.014	.366	.432	.421	.402	.278	.045

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.907	-2.732	-4.299	.812	1.228	1.176	.245
2	-1.945	-3.655	-5.114	.449	.968	.815	-.258
3	-2.134	-3.533	-4.953	.368	.704	.526	-.365
4	-.967	-3.396	-4.241	.010	-.011	.053	-.019
5	-1.946	-4.043	-2.990	-.186	-.114	-.277	-.655
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	-.397	-.488	-.579	-.811
8	.000,000	.000,000	.000,000	-1.413	-1.682	-1.710	-1.818
9	.000,000	.000,000	.000,000	-2.595	-3.018	-2.886	-2.556
10	-1.371	-2.095	-2.166	-2.215	-2.463	-2.255	-1.912
11	-1.142	-1.606	.000,000	-1.609	-1.929	-1.639	-1.470
12	-1.443	-.994	-.842	-.999	-1.212	-.972	-.932
13	-1.034	-.837	-.661	-.657	-.881	-.810	-.748
14	-1.240	-.785	-.607	-.616	-.806	-.710	-.537
15	-.861	-.644	.469	.479	.366	.328	-.413
16	-.480	-.280	.282	.499	.348	.240	-.114
17	-.776	-.285	.212	.407	.249	.233	-.101
18	-.754	.070	.088	.299	.124	.040	-.100
19	-.940	-.311	-.240	-.010	-.291	.075	-.212
20	-1.744	-.867	-.630	-.703	-.888	-.808	-.572
21	-2.555	-1.200	-.835	-1.065	-1.140	-.936	-.819
22	-2.948	-1.168	-.695	-1.075	-1.032	-.970	-.820
23	-2.312	-.674	-.332	-.439	-.342	-.470	-.466
24	-1.024	-.054	-.028	.104	.052	.014	-.118
25	.511	-.697	-2.197	.744	.744	.778	.346
26	.974	.447	.479	-.246	.000,000	.061	-.152
27	.704	.464	.891	.104	.016	.048	.244
28	.416	.662	.758	.722	.290	.339	.341
29	.034	.482	.849	.570	.575	.484	.355
30	.570	.923	.978	1.098	.961	.978	.798
31	.322	.672	.763	.775	.763	.667	.595
32	.124	.513	.630	.641	.652	.505	.506
33	.012	.330	.463	.481	.432	.317	.068

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.474	-4.176	-5.800	.870	1.311	1.258	-.468
2	-2.673	-4.795	-6.315	.308	.813	.638	-.926
3	-2.843	-4.738	-6.187	.001	.492	.386	-.856
4	-2.961	-4.488	-5.362	-.217	.045	-.231	-1.187
5	-2.444	-3.816	-3.344	-.438	-.410	-.432	-1.188
6	.000,000	.000,000	.000,000	-.022	-.037	.079	-.192
7	.000,000	.000,000	.000,000	-.689	-.676	-.577	-1.093
8	.000,000	.000,000	.000,000	-1.957	-2.038	-1.912	-2.036
9	.000,000	.000,000	.000,000	-3.041	-3.317	-2.907	-2.559
10	-1.585	-2.324	-2.343	-2.597	-2.665	-2.201	-1.864
11	-1.147	-1.525	.000,000	-1.642	-1.839	-1.279	-1.151
12	-1.389	-1.012	-.869	-1.112	-1.225	-.782	-.803
13	-1.212	-.830	-.645	-.790	-.928	-.623	-.584
14	-1.631	-.777	-.608	-.708	-.874	-.619	-.641
15	-.892	-.687	.525	.475	.375	.377	-.455
16	-1.175	-.281	.371	.531	.321	.352	-.111
17	-1.121	-.298	.255	.429	.274	.354	-.092
18	-.976	-.079	.135	.316	.160	.092	-.178
19	-1.159	-.297	-.226	-.054	-.284	.118	-.204
20	-2.054	-.816	-.686	-.817	-.929	-.685	-.455
21	-2.828	-1.131	-.745	-1.112	-1.203	-.920	-.805
22	-3.142	-1.083	-.724	-1.182	-1.097	-.961	-.742
23	-2.291	-.514	-.393	-.509	-.431	-.514	-.447
24	-1.345	-.127	-.033	.092	.029	-.026	-.210
25	.144	-1.567	-3.202	1.070	1.061	.957	-.135
26	1.000	.726	.353	-.342	.000,000	.116	-.168
27	.788	.993	.922	.297	.072	.110	.338
28	.386	.746	.882	.787	.694	.451	.438
29	.060	.528	.647	.540	.555	.460	.347
30	.444	.871	.992	1.041	1.130	.947	.749
31	.294	.743	.845	.786	.868	.696	.528
32	.111	.528	.682	.624	.601	.491	.441
33	.014	.327	.490	.473	.430	.325	.009

Table 26.- Continued.

(c) $C_{T,S} = 0.60$, $q_S = 21.77$

$\alpha = 35°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-2.403	-5.453	-7.190	.888	1.262	1.216	-.725
2	-3.486	-5.835	-6.909	.138	.635	.492	-1.123
3	-3.548	-5.882	-6.530	-.119	.257	.149	-1.243
4	-3.455	-5.555	-6.082	-.503	-.229	-.471	-1.507
5	-2.835	-4.462	-3.850	-.638	-.587	-.721	-1.271
6	*000.000	*000.000	*000.000	-.010	.038	.125	-.196
7	*000.000	*000.000	*000.000	-1.020	-.821	-.600	-1.167
8	*000.000	*000.000	*000.000	-2.315	-2.250	-1.919	-1.948
9	*000.000	*000.000	*000.000	-3.363	-3.445	-2.688	-2.266
10	-1.747	-2.505	-2.496	-2.864	-2.749	-2.004	-1.570
11	-1.297	-1.667	*000.000	-1.850	-1.912	-1.144	-1.044
12	-1.378	-.936	-.930	-1.104	-1.143	-.645	-.703
13	-1.345	-.826	-.786	-.797	-.871	-.603	-.596
14	-1.473	-.796	-.780	-.756	-.877	-.659	-.675
15	-1.653	-.739	.449	.395	.277	.312	-.399
16	-1.341	-.229	.291	.520	.351	.352	-.198
17	-1.470	-.359	.218	.487	.344	.324	-.150
18	-1.215	-.068	.190	.329	.207	.148	-.162
19	-1.471	-.320	-.338	-.061	-.260	.141	-.234
20	-2.532	-.884	-.915	-.937	-1.039	-.752	-.584
21	-3.424	-1.117	-.990	-1.306	-1.364	-1.025	-.952
22	-3.500	-.996	-.881	-1.322	-1.231	-1.038	-.924
23	-2.397	-.557	-.561	-.613	-.525	-.632	-.722
24	-1.299	-.269	-.145	.095	.035	-.074	-.330
25	-.292	-2.297	-3.761	1.154	1.170	1.092	-.059
26	.467	.581	.227	-.434	*000.000	.174	-.215
27	.473	1.016	.976	.605	.008	.170	.383
28	.190	.801	.953	.782	.965	.441	.302
29	.019	.529	.735	.526	.550	.431	.304
30	.420	.925	1.034	1.150	1.237	1.030	.490
31	.247	.740	.828	.828	.870	.704	.539
32	.123	.542	.685	.644	.673	.501	.372
33	.022	.299	.462	.467	.466	.321	-.010

$\alpha = 40°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-2.968	-5.528	-5.473	.822	1.155	.949	-1.284
2	-3.495	-5.936	-5.717	-.045	.305	.049	-1.588
3	-4.100	-6.382	-5.714	-.540	-.102	-.265	-1.549
4	-3.476	-6.590	-4.211	-.728	-.543	-.758	-1.501
5	-2.478	-3.831	-2.928	-.877	-.842	-1.036	-1.379
6	*000.000	*000.000	*000.000	.142	-.016	.016	-.234
7	*000.000	*000.000	*000.000	-1.392	-1.000	-.839	-1.210
8	*000.000	*000.000	*000.000	-2.749	-2.405	-1.848	-1.976
9	*000.000	*000.000	*000.000	-3.619	-3.576	-2.676	-2.126
10	-1.809	-2.379	-2.456	-2.809	-2.672	-1.762	-1.279
11	-1.319	-1.607	*000.000	-1.870	-1.826	-.984	-.790
12	-1.793	-1.240	-1.200	-1.154	-1.110	-.644	-.674
13	-1.551	-.959	-.818	-.812	-.879	-.578	-.621
14	-2.079	-1.056	-.849	-.866	-.875	-.622	-.538
15	-1.175	-.769	.459	.515	.182	.257	-.237
16	-1.382	-.247	.293	.535	.306	.237	-.086
17	-1.411	-.521	.218	.471	.317	.262	-.081
18	-1.316	-.036	.092	.343	.213	.097	-.080
19	-1.623	-.460	-.333	-.059	-.294	.139	-.169
20	-2.919	-1.144	-.942	-1.019	-1.061	-.759	-.652
21	-3.570	-1.176	-1.032	-1.363	-1.246	-1.005	-.781
22	-2.587	-.981	-.751	-1.339	-1.228	-1.058	-.766
23	-1.607	-.733	-.650	-.521	-.593	-.602	-.559
24	-.937	-.480	-.217	.075	.010	-.112	-.294
25	-.789	-3.075	-4.301	1.252	1.171	.985	-.480
26	.440	.499	.125	-.615	*000.000	.075	-.189
27	.919	1.047	1.000	.989	-.010	.150	.363
28	.632	.858	.995	.820	.974	.515	.395
29	-.011	.528	.744	.601	.499	.350	.298
30	.474	1.027	1.110	1.289	1.314	1.074	.660
31	.234	.793	.817	.859	.761	.493	.391
32	.154	.526	.769	.720	.632	.412	.362
33	.071	.191	.498	.498	.399	.268	.153

$\alpha = 45°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-4.100	-7.080	-7.581	.723	1.110	-.691	-2.177
2	-4.664	-6.256	-6.347	-.320	.141	-.229	-1.868
3	-4.946	-6.549	-4.299	-.739	-.308	-.543	-1.840
4	-3.872	-4.310	-2.951	-1.002	-.710	-.894	-1.503
5	-3.176	-3.484	-2.723	-1.146	-1.004	-1.124	-1.265
6	*000.000	*000.000	*000.000	.074	-.018	-.003	-.315
7	*000.000	*000.000	*000.000	-1.537	-1.156	-.810	-1.074
8	*000.000	*000.000	*000.000	-2.920	-2.589	-1.721	-1.551
9	*000.000	*000.000	*000.000	-4.204	-3.776	-2.539	-1.857
10	.387	1.023	1.017	1.177	1.213	.947	.400
11	-1.329	-1.804	*000.000	-2.020	-1.785	-.867	-.667
12	-2.194	-1.420	-1.302	-1.303	-1.134	-.558	-.520
13	-1.451	-1.388	-1.031	-.958	-.833	-.535	-.537
14	-1.733	-1.027	-.931	-.838	-.737	-.456	-.429
15	-1.037	-.790	.516	.466	.174	.345	-.014
16	-1.058	-.184	.253	.448	.305	.256	.049
17	-.431	-.555	.154	.390	.267	.248	.033
18	-1.036	-.109	.046	.256	.244	.114	-.057
19	-1.322	-.576	-.420	-.212	-.288	.139	-.208
20	-2.087	-1.122	-.947	-.982	-.955	-.650	-.528
21	-1.474	-1.320	-1.084	-1.319	-1.120	-.785	-.556
22	-2.728	-1.096	-.974	-1.246	-1.108	-.872	-.670
23	-1.293	-.944	-.763	-.575	-.663	-.689	-.635
24	-.473	-.599	-.241	.057	-.057	-.104	-.205
25	-1.508	-3.532	-4.367	1.262	1.239	.762	-.862
26	.744	.408	.004	-.390	*000.000	-.089	-.193
27	.778	.962	.922	1.015	.120	.337	.333
28	.487	.943	1.064	.815	.905	.532	.387
29	-.067	.561	.777	.538	.472	.386	.424
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	.260	.819	.779	.832	.757	.563	.405
32	.124	.571	.684	.656	.568	.417	.341
33	.018	.250	.443	.501	.368	.297	.173

Table 26.- Concluded.

(d) $C_{T,S} = 0.30$, $q_s = 19.16$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.027	.912	.567	.241	.724	.652	.719
2	.126	.106	.076	.577	1.075	1.069	.959
3	.174	-.132	-.095	.649	1.216	1.160	1.035
4	.040	-.109	-.170	-.313	-.261	-.418	-.534
5	-.596	-.993	-.703	.417	.651	.487	.355
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	.000.000	.000.000	.000.000	.149	.466	.395	.298
8	.000.000	.000.000	.000.000	-.753	-.643	-.643	-.680
9	.000.000	.000.000	.000.000	-1.813	-1.792	-1.613	-1.640
10	.959	.960	.951	.083	.079	.113	.317
11	-.865	-1.206	.000.000	-1.325	-1.389	-1.199	-1.091
12	-1.355	-.919	-.891	-.928	-1.006	-.911	-.783
13	-.536	-.765	-.843	-.555	-.589	-.586	-.491
14	-.534	-.577	-.550	-.462	-.432	-.401	-.406
15	-.285	-.077	-.066	-.103	.050	-.045	-.077
16	.003	-.047	.073	-.088	.013	-.150	-.127
17	.084	-.218	.168	-.033	.042	-.037	-.004
18	.060	.043	.042	-.067	-.044	-.163	-.105
19	-.106	-.201	-.172	-.138	-.110	-.055	-.094
20	-.404	-.759	-.711	-.357	-.258	-.319	-.321
21	-1.191	-1.093	-.950	-.455	-.369	-.403	-.407
22	-1.203	-.965	-.802	-.420	-.229	-.446	-.372
23	-.940	-.406	-.336	-.126	-.077	-.141	-.108
24	-.547	.028	.042	-.184	-.119	-.106	-.117
25	.917	1.059	.809	-.403	-.225	-.396	-.296
26	.288	.428	.242	-.613	.000.000	-.746	.123
27	-.174	-.066	-.355	-.331	-.227	-.393	-.436
28	-.183	-.077	-.155	-.259	-.343	-.328	-.309
29	-.056	.114	.117	-.140	-.074	-.062	.017
30	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
31	.423	.542	.575	.205	.050	.228	.276
32	.200	.402	.425	.249	.125	.272	.212
33	0.	.307	.336	.226	.093	.128	-.080

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.627	.243	-.118	.600	1.143	1.137	1.073
2	-.217	-.772	-.973	.646	1.309	1.201	.996
3	-.544	-1.152	-1.146	.525	1.107	1.041	.747
4	-.837	-1.379	-1.431	.318	.832	.699	.495
5	-1.230	-1.846	-1.248	.090	.341	.246	.108
6	.000.000	.000.000	.000.000	-.099	-.207	-.209	-.422
7	.000.000	.000.000	.000.000	-.125	.312	.346	.137
8	.000.000	.000.000	.000.000	-1.206	-1.115	-1.052	-1.200
9	.000.000	.000.000	.000.000	-2.446	-2.568	-2.353	-2.372
10	-1.448	-1.481	-1.715	-2.089	-2.003	-1.825	-1.858
11	-1.014	-1.491	.000.000	-1.556	-1.680	-1.432	-1.431
12	-1.507	-1.040	-.957	-1.092	-1.214	-1.054	-1.043
13	-.703	-.784	-.695	-.663	-.744	-.711	-.704
14	-.790	-.632	-.589	-.552	-.580	-.605	-.595
15	-.269	-.133	.112	.133	.188	.063	-.288
16	-.197	-.118	.142	.119	.186	.014	-.127
17	-.239	-.245	.184	.047	.083	.054	-.087
18	-.272	.077	.072	.049	.018	-.068	-.113
19	-.480	-.219	-.224	-.071	-.159	.006	-.206
20	-1.181	-.894	-.778	-.472	-.550	-.756	-.715
21	-1.566	-1.089	-.868	-.713	-.689	-.795	-.723
22	-1.634	-1.012	-.759	-.561	-.562	-.807	-.711
23	-1.436	-.489	-.298	-.131	-.094	-.260	-.419
24	-.749	.045	.084	-.093	-.051	.014	-.197
25	.067	1.055	.585	.068	.222	.161	.109
26	.226	.906	.509	-.075	.000.000	-.189	.010
27	.157	.446	.292	-.137	-.140	-.130	-.075
28	-.068	.147	.119	-.048	-.055	-.044	.109
29	-.166	.241	.259	.171	.181	.283	.193
30	.749	.916	.928	.406	.383	.739	.562
31	.467	.667	.542	.374	.364	.691	.385
32	.271	.391	.444	.318	.313	.488	.263
33	-.114	.424	.388	.347	.274	.395	.010

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.147	-1.189	-1.478	.768	1.261	1.209	1.048
2	-1.154	-2.358	-2.808	.506	1.164	1.006	.706
3	-1.321	-2.463	-2.544	.321	.918	.737	.501
4	-1.492	-2.741	-2.760	.029	.446	.288	.051
5	-1.601	-2.530	-1.702	-.317	-.012	-.184	-.314
6	.000.000	.000.000	.000.000	-.173	-.065	-.135	-.144
7	.000.000	.000.000	.000.000	-.815	-.636	-.628	-.865
8	.000.000	.000.000	.000.000	-1.695	-1.654	-1.651	-1.775
9	.000.000	.000.000	.000.000	-2.728	-2.866	-2.772	-2.686
10	-1.271	-1.810	-2.652	-2.378	-2.452	-2.267	-2.154
11	-1.749	-1.486	.000.000	-1.620	-1.823	-1.655	-1.538
12	-1.334	-1.007	-.921	-1.029	-1.246	-1.150	-1.104
13	-.709	-.802	-.669	-.647	-.859	-.864	-.780
14	-.995	-.772	-.635	-.635	-.772	-.788	-.657
15	-.385	-.341	.149	.317	.242	.241	-.435
16	-.460	-.198	.191	.339	.201	.177	-.158
17	-.542	-.313	.128	.229	.135	.169	-.003
18	-.489	.035	.041	-.158	.007	.013	-.078
19	-.836	-.259	-.237	-.076	-.318	.035	-.234
20	-1.324	-.864	-.708	-.643	-.832	-.831	-.700
21	-1.996	-1.165	-.791	-.947	-1.028	-.999	-.888
22	-2.834	-1.190	-.739	-.921	-.957	-.968	-.931
23	-2.062	-.589	-.298	-.200	-.289	-.442	-.587
24	-.935	-.012	-.051	.008	-.028	-.049	-.198
25	.832	.580	-.049	.455	.565	.585	.557
26	.812	.944	.694	-.148	.000.000	-.112	-.012
27	.360	.664	.574	-.098	-.010	-.119	.113
28	.157	.238	.291	.257	-.014	.195	.398
29	-.183	.252	.321	.379	.393	.331	.317
30	.539	.840	.817	.844	.793	.709	.759
31	.273	.611	.570	.584	.638	.599	.549
32	.101	.439	.512	.550	.508	.482	.439
33	-.079	.255	.340	.361	.334	.322	-.042

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.744	-2.019	-2.885	.683	1.278	1.081	.930
2	-2.020	-3.502	-3.714	.060	.786	.503	.099
3	-2.104	-3.749	-4.031	.029	.344	.170	-.187
4	-2.067	-3.247	-2.702	-.506	-.065	-.304	-.561
5	-1.488	-3.122	-1.934	-.732	-.509	-.750	-.896
6	.000.000	.000.000	.000.000	-.223	-.066	-.107	-.115
7	.000.000	.000.000	.000.000	-1.233	-.980	-1.066	-1.233
8	.000.000	.000.000	.000.000	-2.307	-2.185	-2.233	-2.352
9	.000.000	.000.000	.000.000	-3.693	-3.845	-3.675	-3.579
10	-1.286	-1.552	-1.225	-2.668	-2.830	-2.687	-2.551
11	-1.137	-1.493	.000.000	-1.906	-2.197	-1.977	-1.846
12	-1.614	-1.306	-.996	-1.177	-1.418	-1.290	-1.230
13	-.939	-.803	-.697	-.774	-.976	-.979	-.929
14	-1.365	-.802	-.673	-.745	-.890	-.887	-.833
15	-.496	-.414	.231	.379	.360	.218	-.534
16	-.768	-.213	.204	.373	.310	.236	-.134
17	-.642	-.366	.180	.351	.245	.246	-.079
18	-.682	.037	.048	.204	.145	.015	-.065
19	-.911	-.314	-.297	-.147	-.329	.021	-.225
20	-1.582	-.749	-.644	-.716	-.842	-.852	-.672
21	-2.443	-1.107	-.747	-1.015	-1.096	-.987	-.932
22	-1.883	-.847	-.889	-.974	-.982	-.968	-.899
23	-1.110	-.553	-.498	-.467	-.408	-.440	-.667
24	-.697	-.410	-.310	-.133	.038	-.120	-.187
25	.547	.032	-.640	.839	1.018	.994	.799
26	.905	.914	.585	-.420	.000.000	-.018	-.039
27	.612	.867	.735	.199	.107	.045	.338
28	.249	.521	.584	.658	.382	.763	.490
29	.060	.438	.502	.510	.579	.526	.509
30	.644	.939	.920	1.057	1.072	1.096	.957
31	.365	.647	.588	.740	.881	.787	.666
32	.202	.496	.536	.595	.649	.540	.573
33	.047	.372	.373	.425	.445	.363	.078

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.268	-2.457	-2.771	.712	1.290	1.077	.295
2	-2.486	-3.581	-3.444	-.197	.560	.141	-.459
3	-2.405	-3.315	-2.742	-.356	.049	-.311	-1.099
4	-2.289	-2.962	-2.238	-.679	-.342	-.761	-1.210
5	-1.442	-2.248	-.808	-.981	-.829	-1.102	-1.270
6	.000.000	.000.000	.000.000	-.141	-.061	-.185	-.186
7	.000.000	.000.000	.000.000	-1.222	-1.051	-1.402	-1.620
8	.000.000	.000.000	.000.000	-2.407	-2.530	-2.692	-2.876
9	.000.000	.000.000	.000.000	-3.335	-3.987	-4.117	-4.047
10	-1.179	-.952	-.594	-2.628	-2.878	-2.856	-2.737
11	-.728	-.760	.000.000	-1.464	-2.139	-2.085	-2.000
12	-.749	-.945	-.844	-.994	-1.324	-1.258	-1.237
13	-.780	-.817	-.784	-.846	-.932	-.889	-.836
14	-.791	-.651	-.612	-.717	-.784	-.807	-.777
15	-.500	-.431	.387	.483	.303	.262	-.705
16	-.589	-.192	.174	.396	.312	.247	-.228
17	-.666	-.408	.102	.245	.237	.226	-.106
18	-.447	-.016	.077	.236	.158	.052	-.245
19	-.525	-.567	-.623	-.227	-.395	.042	-.335
20	-1.382	-.930	-.995	-1.045	-1.007	-1.055	-.852
21	-1.908	-1.074	-1.199	-1.291	-1.188	-1.089	-.952
22	-1.804	-.879	-1.005	-1.052	-1.025	-.973	-.939
23	-1.405	-.760	-.718	-.663	-.568	-.527	-.722
24	-.660	-.497	-.392	-.486	-.059	-.062	-.192
25	.196	-.557	-1.047	1.072	1.245	1.194	.728
26	.819	.912	.706	-.310	.000.000	-.095	.014
27	.671	.909	.960	.582	.230	.272	.598
28	.323	.591	.673	.780	1.041	.833	.485
29	.067	.424	.564	.542	.568	.555	.482
30	.819	.986	1.088	1.283	1.310	1.282	1.183
31	.337	.562	.757	.798	.869	.831	.691
32	.156	.448	.560	.599	.639	.549	.517
33	.133	.238	.340	.360	.448	.387	.021

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.478	-3.150	-3.705	.390	.965	.742	-.477
2	-3.072	-4.249	-4.379	-.546	0.	-.317	-1.422
3	-2.673	-3.578	-3.445	-.864	-.401	-.709	-1.506
4	-2.584	-3.293	-2.449	-1.277	-.948	-1.255	-1.783
5	-1.471	-2.024	-.933	-1.288	-1.245	-1.528	-1.809
6	.000.000	.000.000	.000.000	.019	.040	-.116	-.204
7	.000.000	.000.000	.000.000	-1.512	-1.482	-1.737	-1.956
8	.000.000	.000.000	.000.000	-2.805	-3.059	-3.285	-3.441
9	.000.000	.000.000	.000.000	-3.466	-4.151	-4.167	-3.987
10	-1.135	-.902	-.865	-2.718	-3.219	-3.246	-3.063
11	-.673	-.774	.000.000	-1.393	-2.078	-2.130	-2.038
12	-.661	-.675	-.648	-.859	-1.207	-1.304	-1.227
13	-.685	-.650	-.637	-1.058	-1.125	-1.020	-.995
14	-.683	-.687	-.700	-.893	-.884	-.944	-.954
15	-.389	-.429	.340	.431	.280	.292	-.537
16	-.616	-.122	.174	.432	.254	.228	-.372
17	-.661	-.417	.100	.316	.246	.254	-.223
18	-.606	-.053	-.102	.261	.163	.017	-.361
19	-1.004	-.649	-.674	-.262	-.447	-.033	-.559
20	-1.293	-.900	-.994	-1.174	-1.137	-1.096	-.779
21	-1.647	-1.026	-.948	-.845	-1.240	-1.108	-.964
22	-1.649	-.982	-.969	-1.182	-.967	-1.024	-.914
23	-1.474	-.624	-.758	-.823	-.531	-.537	-.518
24	-.754	-.595	-.530	-.445	-.110	-.133	-.212
25	-.136	-1.002	-1.576	1.162	1.325	1.222	.518
26	.915	.792	.508	-.126	.000.000	-.479	-.093
27	.839	.986	1.035	.960	.290	.496	.782
28	.382	.669	.835	.854	.934	.820	.588
29	.096	.457	.620	.545	.594	.592	.544
30	.499	.911	1.019	1.277	1.354	1.209	1.111
31	.325	.729	.749	.872	.900	.787	.826
32	.233	.495	.543	.658	.614	.552	.632
33	.087	.194	.273	.309	.425	.339	.037

Table 27.- Pressure coefficients for wing with propeller rotation up at tip, inboard slat and fences, $\delta_f = 40°$.

(a) $C_{T,S} = 0.90$, $q_s = 20.26$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.917	.724	.449	-1.030	.031	.507	.333
2	.215	.043	-.041	-.232	.817	1.119	.427
3	.009	-.288	-.333	.159	1.014	1.244	.426
4	-.323	-.602	-.674	.554	1.152	1.202	.309
5	-.473	-.876	-.919	.836	1.014	.959	.301
6	*000.000	*000.000	*000.000	-.203	-.172	-.102	-.080
7	*000.000	*000.000	*000.000	.814	.852	.784	.358
8	*000.000	*000.000	*000.000	.447	.284	.240	-.136
9	*000.000	*000.000	*000.000	-.148	-.458	-.544	-.561
10	-.331	-.778	-.994	-.408	-.560	-.479	-.454
11	-.283	-.823	*000.000	-.567	-.714	-.408	-.361
12	-.455	-.577	-.649	-.491	-.563	-.278	-.283
13	-.304	-.555	-.636	-.472	-.453	-.184	-.233
14	-.317	-.545	-.589	-.453	-.405	-.187	-.180
15	.149	-2.285	.232	-.074	-.103	.061	-.032
16	.170	.072	.139	-.102	-.081	.032	-.061
17	-.249	-.654	-.534	-.318	-.193	.011	-.065
18	-.768	-1.132	-1.198	-.709	-.371	-.155	-.192
19	-.921	-1.483	-1.601	-1.086	-.567	-.210	-.261
20	-.996	-1.527	-1.623	-1.210	-.419	-.341	-.238
21	-1.025	-1.345	-1.422	-1.186	-.260	-.151	-.120
22	-.985	-1.045	-.995	-.809	-.172	-.031	-.031
23	-.904	-.302	-.028	-.198	-.143	-.080	-.112
24	-.414	.031	.020	-.115	-.174	-.053	-.068
25	1.063	1.065	.902	-1.007	-.508	-.163	.031
26	.644	.839	.814	-.703	*000.000	-.454	.150
27	.097	.321	.431	-.349	-.212	-.020	.063
28	.028	.216	.299	-.278	-.185	.017	.031
29	.147	.372	.311	-.018	-.124	.078	.082
30	.841	1.021	.851	-.017	-.090	.038	.118
31	.923	1.003	.897	-.086	-.052	.124	.082
32	.600	.764	.737	.005	.008	.150	.075
33	.351	.554	.591	.186	.070	.092	-.043

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.722	.524	.003	-.631	.354	.539	.309
2	.063	-.344	-.653	.050	.917	1.161	.221
3	-.149	-.535	-.859	.312	1.138	1.259	.177
4	-.443	-.852	-1.076	.581	1.188	1.129	.288
5	-.587	-1.037	-1.164	.824	.989	.814	.167
6	*000.000	*000.000	*000.000	-.252	-.168	-.082	-.008
7	*000.000	*000.000	*000.000	.704	.789	.694	.308
8	*000.000	*000.000	*000.000	.396	.181	.019	-.205
9	*000.000	*000.000	*000.000	-.249	-.681	-.771	-.616
10	-.493	-.913	-1.145	-.490	-.638	-.635	-.485
11	-.426	-.872	*000.000	-.621	-.776	-.513	-.352
12	-1.027	-.587	-.701	-.525	-.599	-.350	-.289
13	-.384	-.590	-.726	-.448	-.461	-.290	-.277
14	-.445	-.552	-.680	-.485	-.399	-.241	-.132
15	.076	-2.292	.284	.129	.005	.123	-.005
16	.078	.113	.138	-.013	-.055	.029	.020
17	-.392	-.616	-.529	-.250	-.150	-.020	-.074
18	-.880	-1.107	-1.161	-.672	-.386	-.247	-.155
19	-1.137	-1.496	-1.606	-1.083	-.583	-.223	-.267
20	-1.240	-1.550	-1.602	-1.211	-.462	-.379	-.203
21	-1.323	-1.438	-1.407	-1.077	-.211	-.131	-.097
22	-1.338	-1.067	-.997	-.674	-.147	-.046	-.022
23	-1.017	-.328	-.030	-.164	-.122	-.060	-.023
24	-.478	.029	.018	-.053	-.136	-.055	-.024
25	1.043	1.100	.772	-.871	-.423	-.125	-.031
26	.706	.944	.884	-.723	*000.000	-.183	.151
27	.159	.488	.593	-.291	-.246	-.041	-.096
28	.007	.279	.391	-.203	-.144	.004	.052
29	.095	.448	.430	-.065	-.117	.010	.032
30	.815	1.089	.952	.003	-.039	.137	.070
31	.937	1.108	1.008	-.091	-.091	.134	.066
32	.545	.794	.771	.173	-.109	.015	.055
33	.311	.575	.601	.532	.048	-.039	-.071

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.664	.165	-.405	-.403	.474	.777	.203
2	-.150	-.772	-1.052	.283	1.032	1.184	.193
3	-.412	-1.083	-1.278	.557	1.176	1.249	.142
4	.009	-.129	-.134	-.236	-.187	-.053	-.042
5	-.738	-1.389	-1.468	.863	.996	.772	.066
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	.818	.781	.694	.342
8	*000.000	*000.000	*000.000	.335	.058	-.044	-.259
9	*000.000	*000.000	*000.000	-.392	-.859	-.951	-.695
10	-.506	-1.056	-1.297	-.565	-.755	-.747	-.588
11	-.407	-.974	*000.000	-.632	-.846	-.562	-.431
12	-1.023	-.654	-.743	-.512	-.620	-.352	-.360
13	-.433	-.624	-.635	-.400	-.476	-.295	-.263
14	-.613	-.683	-.676	-.428	-.495	-.317	-.221
15	-.032	-2.485	.299	.224	.013	.070	.031
16	-.055	.094	.119	-.074	-.073	.010	-.024
17	-.529	-.702	-.529	-.209	-.220	-.069	-.154
18	-1.075	-1.290	-1.225	-.677	-.472	-.327	-.221
19	-1.492	-1.663	-1.739	-1.081	-.638	-.299	-.292
20	-1.659	-1.758	-1.736	-1.276	-.721	-.494	-.410
21	-1.659	-1.537	-1.423	-1.049	-.335	-.237	-.241
22	-1.540	-1.157	-.964	-.602	-.146	-.111	-.122
23	-1.150	-.404	-.079	-.178	-.111	-.037	-.027
24	-.419	-.116	-.096	-.125	-.126	-.006	-.085
25	1.109	.979	.453	-.778	-.307	-.111	-.109
26	.877	1.024	.852	-.637	*000.000	-.294	.080
27	.235	.601	.695	-.289	-.138	-.101	-.041
28	.071	.353	.475	-.208	-.138	-.036	-.068
29	.111	.418	.425	.099	-.160	.021	.076
30	.779	1.081	.973	.034	-.082	.071	.117
31	.912	1.063	.984	.181	-.096	.094	.020
32	.566	.732	.769	.403	.034	.093	.167
33	.351	.546	.587	.583	.227	.040	.006

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.462	-.352	-1.090	-.202	.665	.956	.231
2	-.422	-1.247	-1.754	.389	1.142	1.251	.268
3	-.578	-1.447	-1.827	.503	1.162	1.139	.056
4	-.861	-1.510	-1.779	.794	1.098	.940	.049
5	-.922	-1.630	-1.713	.862	.882	.653	.027
6	*000.000	*000.000	*000.000	-.245	-.148	-.092	-.113
7	*000.000	*000.000	*000.000	.725	.734	.716	.273
8	*000.000	*000.000	*000.000	.175	-.051	-.171	-.303
9	*000.000	*000.000	*000.000	-.544	-.966	-1.030	-.761
10	-.567	-1.118	-1.368	-.646	-.849	-.810	-.573
11	-.551	-1.036	*000.000	-.733	-.906	-.635	-.503
12	-1.133	-.729	-.699	-.589	-.647	-.404	-.333
13	-.527	-.676	-.623	-.481	-.484	-.332	-.289
14	-.761	-.693	-.657	-.504	-.502	-.300	-.270
15	-.123	-2.437	.304	.195	.064	.098	.006
16	-.788	-.741	-.579	-.278	-.293	-.142	-.147
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	-1.311	-1.305	-1.204	-.721	-.500	-.410	-.294
19	-1.767	-1.718	-1.688	-1.149	-.843	-.395	-.417
20	-1.962	-1.765	-1.615	-1.287	-.754	-.666	-.478
21	-2.040	-1.607	-1.382	-1.016	-.404	-.267	-.259
22	-1.836	-1.157	-.959	-.664	-.143	-.108	-.078
23	-1.342	-.306	-.220	-.141	-.110	-.086	-.057
24	-.590	-.130	.011	-.137	-.094	-.065	-.097
25	1.124	.873	.201	-.678	-.208	-.032	-.114
26	.885	1.015	.852	-.668	*000.000	-.307	.036
27	.345	.690	.786	-.245	-.117	.037	-.117
28	.095	.381	.593	-.194	-.131	-.010	.040
29	.073	.415	.473	.096	-.042	.024	.020
30	.863	.967	.907	.100	-.028	.089	-.038
31	.760	.945	.993	.295	-.014	.108	.109
32	.500	.704	.832	.594	.160	.094	.202
33	.303	.544	.627	.787	.289	.020	.099

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.241	-.595	-1.600	-.095	.785	.982	.108
2	-.850	-1.758	-2.343	.679	1.186	1.159	.028
3	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
4	-1.074	-1.870	-2.427	.914	1.122	.984	-.011
5	-1.188	-2.021	-2.235	.982	.910	.630	-.136
6	*000.000	*000.000	*000.000	-.239	-.098	-.080	-.102
7	*000.000	*000.000	*000.000	.729	.715	.733	.272
8	*000.000	*000.000	*000.000	.217	-.172	-.272	-.377
9	*000.000	*000.000	*000.000	-.659	-1.129	-1.093	-.878
10	-.663	-1.209	-1.531	-.757	-.948	-.844	-.583
11	-.632	-1.062	*000.000	-.807	-.952	-.657	-.530
12	-1.182	-.734	-.747	-.584	-.711	-.410	-.377
13	-.749	-.731	-.696	-.525	-.539	-.300	-.354
14	-.964	-.741	-.683	-.523	-.570	-.301	-.307
15	-.276	-2.308	.344	.335	.038	.227	-.036
16	-.432	.017	.132	.097	-.021	-.038	-.028
17	-1.054	-.830	-.622	-.296	-.326	-.143	-.176
18	-1.705	-1.366	-1.256	-.777	-.664	-.598	-.421
19	-2.279	-1.785	-1.691	-1.236	-1.007	-.554	-.524
20	-2.594	-1.920	-1.674	-1.366	-.955	-.778	-.600
21	-2.672	-1.818	-1.507	-1.152	-.679	-.452	-.446
22	-2.342	-1.357	-1.037	-.720	-.168	-.142	-.118
23	-1.510	-.361	-.254	-.184	-.064	-.115	-.117
24	-.692	-.107	-.066	-.156	-.079	-.059	-.134
25	1.076	.695	-.332	-.550	-.043	.026	-.071
26	.986	1.089	.810	-.586	*000.000	-.214	-.024
27	.397	.821	.877	-.194	-.100	-.017	-.098
28	.092	.497	.611	-.143	-.073	.009	-.023
29	.026	.497	.502	.226	.015	.037	.049
30	.611	1.002	.962	.250	.123	.173	.028
31	.641	.993	.975	.417	.165	.266	.103
32	.432	.770	.845	.851	.414	.161	.108
33	.273	.615	.595	.754	.485	.230	.152

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.026	-1.053	-2.232	.150	.806	1.007	-.014
2	-1.031	-2.072	-3.088	.615	1.140	1.236	-.035
3	-1.186	-2.246	-2.954	.696	1.145	1.110	-.116
4	-1.248	-2.225	-2.752	.802	.980	.839	-.223
5	-1.179	-2.053	-2.303	.745	.674	.421	-.223
6	*000.000	*000.000	*000.000	-.248	-.175	-.207	-.169
7	*000.000	*000.000	*000.000	.582	.535	.568	.188
8	*000.000	*000.000	*000.000	.028	-.340	-.342	-.411
9	*000.000	*000.000	*000.000	-.797	-1.289	-1.209	-.870
10	-.736	-1.346	-1.550	-.836	-1.106	-.944	-.673
11	-.654	-1.118	*000.000	-.834	-1.021	-.640	-.433
12	-1.141	-.794	-.738	-.655	-.776	-.448	-.415
13	-.874	-.741	-.644	-.545	-.644	-.399	-.392
14	-1.206	-.816	-.671	-.589	-.662	-.362	-.319
15	-.471	-2.381	.339	.300	.164	.168	.009
16	-.564	-.043	.107	.103	-.003	-.055	-.104
17	-1.212	-.879	-.640	-.386	-.506	-.223	-.181
18	-1.844	-1.423	-1.196	-.873	-.919	-.605	-.419
19	-2.445	-1.911	-1.637	-1.271	-1.130	-.627	-.612
20	-2.741	-2.000	-1.530	-1.504	-1.338	-1.124	-.741
21	-3.075	-1.975	-1.437	-1.339	-.910	-.679	-.582
22	-2.555	-1.494	-1.045	-.948	-.301	-.401	-.436
23	-1.557	-.478	-.264	-.210	-.146	-.112	-.155
24	-.767	-.153	.036	-.076	-.161	-.106	-.173
25	.976	.411	-.732	-.404	.041	.069	-.175
26	1.007	1.029	.739	-.520	*000.000	-.148	-.075
27	.475	.829	.883	-.171	-.135	-.064	-.109
28	.166	.529	.629	-.119	-.064	-.088	-.035
29	.021	.463	.579	.356	.067	.054	-.005
30	.508	.913	.890	.395	.231	.239	.057
31	.640	.926	.942	.707	.291	.215	.047
32	.390	.702	.797	.885	.478	.329	.059
33	.237	.479	.614	.719	.555	.269	.075

Table 27.- Continued.

(a) $C_{T,S} = 0.90$, $q_s \approx 20.26$

$\alpha = 35°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-.361	-1.483	-2.997	.278	.968	1.082	-.210
2	-1.340	-2.491	-3.670	.671	1.205	1.189	-.278
3	-1.518	-2.569	-3.408	.820	1.150	1.130	-.190
4	-1.713	-2.621	-3.214	.953	.993	.824	-.305
5	-1.463	-2.310	-2.607	.772	.637	.413	-.338
6	*000.000	*000.000	*000.000	-.251	-.168	-.185	-.045
7	*000.000	*000.000	*000.000	.634	.559	.518	.184
8	*000.000	*000.000	*000.000	.002	-.438	-.401	-.297
9	*000.000	*000.000	*000.000	-.923	-1.476	-1.321	-.772
10	-.916	-1.511	-1.741	-1.021	-1.234	-1.026	-.524
11	-.788	-1.192	*000.000	-.955	-1.165	-.665	-.471
12	-1.185	-.828	-.755	-.691	-.851	-.419	-.369
13	-1.075	-.809	-.658	-.571	-.726	-.437	-.279
14	-1.323	-.831	-.646	-.604	-.687	-.353	-.257
15	-.605	-2.260	.360	.355	.213	.182	.042
16	-.723	-.067	.150	.093	.054	.062	-.028
17	-1.479	-.936	-.658	-.477	-.538	-.222	-.144
18	-2.203	-1.546	-1.252	-.996	-1.085	-.839	-.454
19	-2.891	-2.081	-1.608	-1.516	-1.468	-.812	-.513
20	-3.182	-2.123	-1.412	-1.642	-1.414	-1.108	-.693
21	-3.376	-2.062	-1.283	-1.451	-1.172	-.880	-.635
22	-2.812	-1.621	-.922	-.919	-.557	-.652	-.507
23	-1.415	-.572	-.294	-.225	-.192	-.241	-.342
24	-.910	-.190	.051	-.182	-.186	-.163	-.167
25	.865	.206	-1.178	-.282	.083	.004	-.252
26	1.028	1.036	.721	-.521	*000.000	-.209	-.029
27	.570	.884	.906	-.190	-.095	-.066	-.009
28	.178	.604	.739	-.059	-.151	-.063	.013
29	-.048	.473	.539	.426	.143	.059	.146
30	.435	.977	.937	.615	.348	.414	.095
31	.596	1.000	.999	.772	.580	.306	.182
32	.377	.706	.859	.768	.687	.374	.137
33	.190	.506	.645	.698	.790	.323	.252

$\alpha = 40°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-.759	-1.932	-3.490	.478	1.032	.923	-.304
2	-1.815	-3.136	-4.338	.766	1.280	1.201	-.406
3	-1.871	-3.073	-4.026	.779	1.140	1.053	-.420
4	-1.921	-2.840	-3.569	.751	.911	.833	-.561
5	-1.764	-2.597	-2.858	.670	.580	.405	-.606
6	*000.000	*000.000	*000.000	-.295	-.170	-.186	-.073
7	*000.000	*000.000	*000.000	.516	.512	.557	-.080
8	*000.000	*000.000	*000.000	-.170	-.535	-.387	-.443
9	*000.000	*000.000	*000.000	-1.075	-1.551	-1.129	-.734
10	-.995	-1.566	-1.617	-1.129	-1.311	-.896	-.482
11	-.886	-1.362	*000.000	-1.110	-1.248	-.682	-.411
12	-1.220	-.946	-.733	-.798	-.861	-.504	-.360
13	-1.167	-.860	-.603	-.627	-.654	-.463	-.364
14	-1.542	-.911	-.669	-.721	-.712	-.461	-.352
15	-.770	-2.304	.345	.374	.291	.242	-.050
16	-.803	-.109	.132	.117	.024	.054	-.043
17	-1.596	-.991	-.623	-.509	-.606	-.261	-.225
18	-2.360	-1.606	-1.151	-1.122	-1.132	-.812	-.452
19	-3.102	-2.143	-1.443	-1.612	-1.559	-.825	-.603
20	-3.419	-2.270	-1.340	-1.745	-1.524	-1.165	-.724
21	-3.576	-2.234	-1.170	-1.465	-1.291	-1.041	-.685
22	-2.888	-1.689	-.804	-1.042	-.706	-.802	-.620
23	-1.459	-.615	-.272	-.239	-.311	-.280	-.447
24	-1.029	-.155	-.014	-.164	-.229	-.240	-.148
25	.679	.023	-1.140	-.164	.117	-.046	-.208
26	1.108	.924	.671	-.497	*000.000	-.099	-.052
27	.597	.904	.975	-.162	-.118	-.086	-.119
28	.233	.574	.740	-.044	-.066	-.113	-.044
29	-.042	.453	.612	.475	.137	.114	.118
30	.359	.955	1.040	.518	.258	.294	.029
31	.483	.910	1.010	.888	.631	.447	.048
32	.349	.698	.867	.899	.835	.370	.161
33	.126	.452	.652	.623	.645	.290	.146

$\alpha = 45°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-1.092	-2.212	-3.932	.658	1.084	1.087	-.321
2	-2.189	-3.259	-4.515	.975	1.212	1.089	-.551
3	-2.292	-3.395	-4.394	.852	1.160	1.062	-.469
4	-2.155	-3.080	-3.710	.761	.869	.753	-.443
5	-1.872	-2.707	-2.959	.594	.489	.339	-.459
6	*000.000	*000.000	*000.000	-.202	-.140	-.189	.049
7	*000.000	*000.000	*000.000	.437	.466	.534	-.099
8	*000.000	*000.000	*000.000	-.432	-.593	-.270	-.292
9	*000.000	*000.000	*000.000	-1.384	-1.711	-1.212	-.560
10	-1.202	-1.744	-1.837	-1.337	-1.434	-.929	-.502
11	-1.004	-1.352	*000.000	-1.155	-1.226	-.623	-.437
12	-1.186	-.994	-.787	-.806	-.883	-.562	-.280
13	-1.337	-.944	-.690	-.688	-.709	-.443	-.280
14	-1.702	-.978	-.722	-.710	-.744	-.554	-.305
15	-.810	-2.104	.323	.343	.216	.209	-.009
16	-.850	-.142	.091	.069	-.044	.039	.026
17	-1.579	-.980	-.609	-.498	-.608	-.337	-.165
18	-2.435	-1.642	-1.238	-1.063	-1.185	-.998	-.469
19	-3.332	-2.260	-1.468	-1.778	-1.687	-.955	-.546
20	-3.465	-2.433	-1.396	-1.797	-1.545	-1.193	-.522
21	-3.416	-2.264	-1.199	-1.367	-1.393	-1.328	-.706
22	-2.923	-1.701	-.922	-1.035	-.856	-.896	-.527
23	-1.447	-.604	-.437	-.271	-.210	-.452	-.465
24	-1.087	-.083	-.086	-.155	-.123	-.093	-.048
25	.414	-.274	-1.605	.124	.228	-.013	-.218
26	1.056	.934	.654	-.449	*000.000	-.253	-.040
27	.614	.892	.973	-.209	-.101	-.084	.017
28	.205	.532	.720	.040	-.115	-.150	.026
29	-.144	.419	.540	.460	.235	.103	.195
30	.217	.856	.859	.666	.486	.350	.013
31	.393	.873	.925	.925	.664	.306	.129
32	.210	.635	.776	.823	.829	.346	.143
33	.112	.400	.644	.609	.688	.169	.152

$\alpha = 50°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-1.564	-2.545	-4.062	.770	1.051	.939	-.423
2	-2.730	-3.448	-4.664	1.023	1.157	.987	-.501
3	-2.796	-3.527	-4.351	.877	1.041	.924	-.588
4	-2.687	-3.413	-4.177	.734	.775	.697	-.558
5	-2.181	-2.768	-3.004	.479	.379	.264	-.560
6	*000.000	*000.000	*000.000	-.189	-.204	-.194	-.247
7	*000.000	*000.000	*000.000	.357	.397	.621	-.374
8	*000.000	*000.000	*000.000	-.517	-.757	-.287	-.564
9	*000.000	*000.000	*000.000	-1.480	-1.732	-.944	-.489
10	-1.343	-1.766	-1.746	-1.387	-1.387	-.745	-.297
11	-1.180	-1.453	*000.000	-1.181	-1.224	-.620	-.420
12	-1.085	-.972	-.726	-.770	-.771	-.431	-.354
13	-1.537	-.958	-.709	-.605	-.609	-.410	-.362
14	-1.806	-1.021	-.709	-.669	-.633	-.395	-.289
15	-1.024	-2.204	.364	.445	.261	.242	-.137
16	-1.042	-.179	.092	.150	-.016	.035	-.124
17	-1.752	-1.099	-.587	-.515	-.672	-.354	-.302
18	-2.595	-1.693	-1.249	-1.058	-1.148	-.686	-.488
19	-3.225	-2.195	-1.454	-1.654	-1.655	-.780	-.592
20	-3.794	-2.415	-1.338	-1.790	-1.639	-1.226	-.894
21	-3.379	-2.103	-1.129	-1.480	-1.482	-.945	-.673
22	-2.814	-1.643	-.981	-.995	-.943	-.936	-.771
23	-1.457	-.626	-.506	-.254	-.331	-.424	-.493
24	-1.173	-.122	-.110	-.111	-.118	-.106	-.293
25	.075	-.414	-1.779	.259	.215	-.048	-.340
26	.842	.885	.658	-.321	*000.000	-.263	-.108
27	.633	.881	.935	-.089	-.090	-.181	-.029
28	.192	.570	.768	-.010	-.141	-.077	.046
29	-.176	.444	.612	.570	.136	.139	.077
30	.218	.852	.931	.693	.471	.317	-.030
31	.277	.855	.951	.885	.681	.341	.082
32	.170	.694	.783	.886	.788	.384	.088
33	.057	.394	.595	.622	.627	.263	.031

$\alpha = 55°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-2.415	-2.950	-4.572	.837	1.139	.577	-.399
2	-3.378	-3.777	-4.945	.995	1.160	.699	-.528
3	-3.362	-3.970	-4.788	.971	1.073	.924	-.445
4	-1.001	-.615	-.291	-.230	-.167	-.274	-.087
5	-2.548	-3.032	-3.149	.467	.399	.326	-.468
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	.347	.431	.557	-.119
8	*000.000	*000.000	*000.000	-.666	-.725	-.103	-.242
9	*000.000	*000.000	*000.000	-1.767	-1.825	-.894	-.438
10	.217	.850	.937	.709	.438	.222	.007
11	-1.168	-1.466	*000.000	-1.223	-1.166	-.532	-.323
12	-1.065	-1.043	-.772	-.805	-.749	-.361	-.235
13	-1.735	-1.045	-.744	-.696	-.568	-.393	-.302
14	-1.943	-1.090	-.807	-.691	-.654	-.367	-.346
15	-.935	-2.072	.324	.368	.153	.166	-.093
16	-1.213	-.260	.063	.108	.062	-.096	-.154
17	-1.815	-1.174	-.706	-.515	-.695	-.293	-.243
18	-2.612	-1.798	-1.232	-1.160	-.883	-.709	-.536
19	-3.706	-2.376	-1.666	-1.674	-1.597	-.648	-.559
20	-3.779	-2.420	-1.576	-1.894	-1.597	-1.002	-.668
21	-3.754	-2.262	-1.309	-1.570	-1.378	-.879	-.628
22	-2.718	-1.537	-1.056	-1.069	-1.034	-.654	-.416
23	-1.479	-.626	-.584	-.188	-.357	-.466	-.433
24	-.979	-.194	-.184	-.116	-.093	-.184	-.191
25	-.258	-.606	-1.869	.231	.229	-.044	-.137
26	.828	.836	.639	-.313	*000.000	-.316	-.077
27	.571	.885	.953	-.137	-.147	-.225	-.085
28	.191	.616	.743	-.045	-.118	-.099	.084
29	-.173	.422	.577	.468	.175	.074	.075
30	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
31	.327	.904	.954	.966	.618	.314	.048
32	.162	.682	.819	.889	.782	.289	.148
33	.102	.376	.554	.592	.640	.112	-.114

$\alpha = 60°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-2.461	-2.824	-4.090	.828	.986	.289	-.200
2	-3.828	-4.227	-5.074	1.107	1.240	.882	-.227
3	-3.687	-4.166	-4.867	.983	1.085	.813	-.292
4	-3.362	-3.800	-4.281	.762	.815	.484	-.237
5	-2.749	-3.259	-3.267	.433	.385	.282	-.390
6	*000.000	*000.000	*000.000	-.234	-.144	-.266	-.049
7	*000.000	*000.000	*000.000	.291	.467	.593	-.101
8	*000.000	*000.000	*000.000	-.687	-.687	-.121	-.154
9	*000.000	*000.000	*000.000	-1.683	-1.652	-.595	-.262
10	-1.468	-2.095	-1.849	-1.703	-1.359	-.488	-.340
11	-1.233	-1.530	*000.000	-1.217	-1.022	-.289	-.245
12	-1.041	-1.134	-.806	-.741	-.581	-.272	-.197
13	-1.703	-1.050	-.775	-.592	-.387	-.198	-.194
14	-1.905	-1.128	-.862	-.663	-.502	-.355	-.235
15	-1.019	-1.971	.261	.319	.183	.148	-.112
16	-1.772	-1.227	-.722	-.523	-.470	-.207	-.243
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	-2.486	-1.791	-1.381	-1.028	-.517	-.467	-.352
19	-3.381	-2.103	-1.644	-1.493	-1.085	-.406	-.524
20	-3.374	-2.096	-1.597	-1.580	-1.094	-.650	-.505
21	-3.270	-1.940	-1.397	-1.457	-.889	-.655	-.441
22	-2.455	-1.429	-1.149	-1.171	-.967	-.373	-.413
23	-1.340	-.704	-.577	-.250	-.386	-.312	-.330
24	-.825	-.248	-.220	-.089	-.124	-.078	-.034
25	-.698	-.824	-1.941	.252	.195	-.244	-.113
26	.716	.760	.591	-.237	*000.000	-.324	-.025
27	.521	.853	.958	-.140	-.134	-.196	.001
28	.113	.535	.709	-.044	-.085	-.103	.042
29	-.212	.344	.552	.380	.019	-.004	.077
30	.162	.834	.957	.500	.301	.326	-.087
31	.299	.876	.920	.840	.481	.319	-.005
32	.213	.624	.710	.836	.795	.240	.075
33	.088	.319	.500	.653	.647	.180	.062

Table 27.- Continued.

(a) $C_{T,S} = 0.90$, $q_S = 20.26$

$\alpha = 65°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-3.293	-3.390	-4.461	.950	1.020	.170	-.103
2	-4.397	-4.511	-5.335	1.107	1.216	.475	-.241
3	-4.359	-4.618	-5.122	1.042	1.145	.597	-.332
4	-3.658	-4.077	-4.338	.851	.887	.367	-.169
5	-2.893	-3.461	-3.327	.399	.474	.402	-.157
6	*000.000	*000.000	*000.000	-.208	-.135	-.224	-.040
7	*000.000	*000.000	*000.000	.284	.438	.225	-.053
8	*000.000	*000.000	*000.000	-.749	-.608	-.102	-.100
9	*000.000	*000.000	*000.000	-1.770	-1.377	-.363	-.129
10	-1.692	-2.102	-1.828	-1.650	-1.163	-.317	-.120
11	-1.340	-1.581	*000.000	-1.211	-.935	-.304	-.190
12	-1.119	-1.148	-.840	-.800	-.558	-.274	-.186
13	-1.668	-1.034	-.865	-.614	-.361	-.247	-.224
14	-1.788	-1.070	-.840	-.547	-.366	-.206	-.202
15	-.963	-1.416	.253	.269	.161	.130	-.031
16	-1.071	-.268	.024	.059	.027	.040	-.049
17	-1.584	-1.156	-.756	-.462	-.445	-.173	-.164
18	-2.460	-1.747	-1.379	-.945	-.611	-.401	-.414
19	-2.963	-2.061	-1.784	-1.243	-.742	-.433	-.432
20	-2.891	-2.054	-1.776	-1.644	-1.073	-.526	-.502
21	-2.757	-1.798	-1.546	-1.186	-.758	-.402	-.329
22	-2.167	-1.361	-1.227	-.848	-.747	-.364	-.338
23	-1.243	-.638	-.563	-.209	-.325	-.201	-.155
24	-.808	-.275	-.288	-.054	-.107	-.174	-.075
25	-1.281	-.848	-1.977	.325	.169	-.424	-.144
26	.503	.859	.564	-.155	*000.000	-.184	-.091
27	.442	.902	.935	-.131	-.132	-.226	.030
28	.081	.554	.650	-.037	-.107	-.158	-.046
29	-.267	.399	.557	.413	.022	.009	.031
30	.073	.879	.914	.562	.137	.203	-.042
31	.153	.947	.863	.813	.545	.242	.112
32	.058	.723	.713	.916	.592	.186	.143
33	.059	.358	.529	.738	.573	.136	-.070

$\alpha = 70°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-3.513	-3.511	-4.187	.886	.850	-.207	-.169
2	-4.504	-4.738	-5.116	1.072	1.139	.143	-.187
3	-4.791	-5.195	-5.255	1.040	1.171	.198	-.121
4	-3.869	-4.395	-4.477	.782	.850	.039	-.242
5	-3.103	-3.660	-3.269	.401	.520	.246	-.158
6	*000.000	*000.000	*000.000	-.221	-.100	-.163	-.010
7	*000.000	*000.000	*000.000	.295	.470	.057	-.162
8	*000.000	*000.000	*000.000	-.861	-.394	-.122	-.255
9	*000.000	*000.000	*000.000	-2.107	-1.423	-.344	-.093
10	-1.731	-2.264	-1.763	-1.658	-.959	-.286	-.255
11	-1.381	-1.730	*000.000	-1.205	-.693	-.128	-.179
12	-1.124	-1.058	-.771	-.648	-.380	-.237	-.309
13	-1.664	-1.043	-.819	-.533	-.360	-.261	-.249
14	-1.712	-1.076	-.837	-.477	-.305	-.199	-.166
15	-.954	-1.780	.228	.209	.097	.158	-.056
16	-.863	-.254	.073	.085	-.005	-.008	-.197
17	-1.446	-1.202	-.761	-.482	-.316	-.131	-.220
18	-1.688	-1.522	-1.318	-.742	-.548	-.400	-.497
19	-2.695	-1.886	-1.697	-1.336	-.966	-.426	-.338
20	-2.358	-1.612	-1.502	-1.250	-.896	-.292	-.340
21	-2.627	-1.692	-1.578	-.953	-.586	-.355	-.313
22	-1.730	-1.296	-1.255	-.863	-.613	-.178	-.234
23	-1.007	-.635	-.545	-.352	-.321	-.283	-.188
24	-.590	-.281	-.185	-.189	-.222	-.196	-.279
25	-1.912	-1.227	-2.078	.252	.162	-.274	-.117
26	.160	.663	.519	-.237	*000.000	-.104	-.040
27	.250	.844	.878	-.145	-.067	-.144	-.063
28	.043	.444	.639	-.127	-.145	-.175	0.
29	-.324	.292	.512	.252	.010	-.077	-.022
30	.094	.842	.914	.337	.226	.236	-.025
31	.152	.839	.650	.606	.374	.193	.072
32	.055	.579	.598	.895	.469	.161	-.108
33	.009	.256	.493	.655	.676	.166	-.145

$\alpha = 75°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-4.303	-3.919	-4.583	1.023	1.009	-.013	-.201
2	-4.949	-5.188	-5.299	1.078	1.205	-.151	-.297
3	-4.554	-5.291	-5.073	.986	1.197	-.025	-.265
4	-3.878	-4.631	-4.378	.814	1.027	.453	-.092
5	-3.046	-3.798	-3.193	.529	.667	.444	-.126
6	*000.000	*000.000	*000.000	-.227	-.116	-.080	-.099
7	*000.000	*000.000	*000.000	.271	.620	-.023	-.373
8	*000.000	*000.000	*000.000	-.867	-.205	-.069	-.214
9	*000.000	*000.000	*000.000	-2.033	-1.323	-.118	-.252
10	-1.732	-2.415	-1.848	-1.764	-.912	-.076	-.052
11	-1.315	-1.599	*000.000	-1.024	-.570	-.235	-.312
12	-1.128	-1.106	-.802	-.623	-.379	-.207	-.327
13	-1.492	-1.036	-.831	-.655	-.360	-.277	-.161
14	-1.736	-1.067	-.892	-.633	-.415	-.307	-.402
15	-1.091	-1.723	.363	.166	.066	.086	-.188
16	-.962	-.229	-.008	.090	-.022	-.030	-.123
17	-1.553	-1.184	-.757	-.505	-.270	-.158	-.296
18	-1.804	-1.559	-1.328	-.629	-.594	-.392	-.417
19	-2.166	-1.706	-1.640	-1.048	-.714	-.363	-.344
20	-2.163	-1.795	-1.751	-1.450	-.710	-.412	-.432
21	-2.042	-1.514	-1.595	-1.041	-.688	-.224	-.386
22	-1.501	-1.117	-1.164	-.629	-.623	-.312	-.365
23	-.907	-.633	-.497	-.243	-.312	-.279	-.369
24	-.587	-.238	-.207	-.271	-.167	-.232	-.257
25	-2.302	-1.634	-2.232	.203	.023	-.264	-.235
26	-.055	.646	.518	-.179	*000.000	-.101	-.114
27	.174	.827	.859	-.202	-.110	-.071	-.189
28	.014	.644	.686	-.089	-.108	-.044	-.166
29	-.287	.273	.512	.248	-.077	-.142	-.124
30	-.018	.787	.822	.321	.207	.154	-.085
31	.177	.866	.712	.647	-.020	.079	.049
32	.086	.641	.602	.962	.649	.196	-.106
33	.054	.258	.450	.695	.641	.162	-.087

$\alpha = 80°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-4.242	-4.268	-4.519	.987	.970	-.083	-.052
2	-4.595	-5.265	-5.194	1.020	1.135	-.281	-.169
3	-4.418	-5.254	-4.912	1.038	.959	-.124	-.092
4	-3.761	-4.612	-4.314	.815	.959	-.068	-.147
5	-2.962	-3.857	-3.106	.570	.716	.044	-.088
6	*000.000	*000.000	*000.000	-.325	-.271	-.088	.071
7	*000.000	*000.000	*000.000	.286	.586	-.170	-.105
8	*000.000	*000.000	*000.000	-.775	-.375	-.181	-.088
9	*000.000	*000.000	*000.000	-1.837	-1.042	.095	-.011
10	-1.468	-2.237	-1.652	-1.539	-.805	-.031	-.085
11	-1.241	-1.726	*000.000	-1.270	-.722	-.043	-.065
12	-1.157	-1.106	-.847	-.729	-.366	-.071	-.236
13	-1.209	-.907	-.699	-.506	-.291	-.092	-.320
14	-1.015	-.843	-.789	-.451	-.178	-.156	-.144
15	-.809	-1.669	.249	.125	.024	.154	-.096
16	-.709	-.191	.037	.075	.012	.025	-.091
17	-1.234	-1.003	-.719	-.377	-.224	-.157	-.231
18	-1.638	-1.402	-1.293	-.839	-.712	-.398	-.285
19	-1.900	-1.661	-1.643	-1.154	-.756	-.308	-.212
20	-2.260	-1.647	-1.629	-1.287	-.842	-.226	-.275
21	-1.957	-1.505	-1.566	-1.227	-1.028	-.384	-.255
22	-1.379	-1.134	-1.168	-.815	-.486	-.367	-.300
23	-.874	-.592	-.303	-.334	-.396	-.283	-.275
24	-.557	-.246	-.209	-.161	-.159	-.115	.056
25	-2.446	-1.271	-1.989	.158	.061	-.123	-.088
26	-.204	.680	.521	-.228	*000.000	-.088	.051
27	.103	.767	.834	-.110	-.070	-.081	.097
28	-.066	.457	.634	-.171	-.124	-.064	.066
29	-.253	.263	.499	.072	-.042	-.043	.168
30	.112	.775	.724	.072	-.170	.141	-.135
31	.080	.830	.647	.437	.022	.047	.128
32	.076	.566	.463	.851	.412	.149	.005
33	.016	.189	.459	.625	.367	.061	.121

Table 27. - Continued.

(b) $C_{T,S} = 0.80$, $q_s = 20.01$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.889	.665	.394	-.538	.325	.631	.283
2	.308	-.088	-.195	.127	.923	1.109	.707
3	.098	-.303	-.267	.383	1.132	1.190	.832
4	-.247	-.609	-.567	.696	1.192	1.140	.618
5	-.503	-.931	-.804	.943	1.025	.846	.492
6	*000.000	*000.000	*000.000	-.211	-.168	-.123	-.071
7	*000.000	*000.000	*000.000	.739	.764	.665	.420
8	*000.000	*000.000	*000.000	.338	.085	-.053	-.277
9	*000.000	*000.000	*000.000	-.485	-.787	-.851	-.745
10	-.455	-.840	-1.026	-.586	-.729	-.686	-.613
11	.932	1.064	*000.000	-.002	-.045	.066	.194
12	-.911	-.648	-.475	-.572	-.605	-.373	-.369
13	-.420	-.632	-.721	-.474	-.428	-.275	-.291
14	-.479	-.661	-.718	-.473	-.396	-.263	-.262
15	.088	-.037	.197	.047	-.073	.058	.033
16	.098	.049	.084	-.058	-.029	-.078	-.039
17	-.372	-.721	-.527	-.253	-.147	-.070	-.079
18	-.907	-1.308	-1.169	-.603	-.284	-.268	-.213
19	-1.215	-1.661	-1.323	-.954	-.468	-.191	-.245
20	-.020	.219	.300	-.225	-.093	-.028	-.032
21	-1.364	-1.586	-1.007	-.901	-.212	-.121	-.102
22	-1.266	-1.137	-.697	-.509	-.092	-.063	-.114
23	-1.061	-.250	-.132	-.168	-.135	-.068	-.054
24	-.487	-.049	-.051	-.160	-.120	-.109	-.067
25	1.012	1.057	.770	-.931	.409	-.186	-.141
26	.571	.838	.723	-.770	*000.000	-.553	.162
27	.064	.347	.363	-.324	-.276	-.020	-.052
28	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
29	.150	.394	.343	.035	-.150	.023	.083
30	.842	1.070	.899	.016	-.031	.033	.176
31	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
32	.579	.773	.720	.163	.093	.126	.129
33	.320	.586	.557	.150	.115	-.056	-.037

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.760	.296	-.142	-.292	.555	.850	.541
2	.007	-.528	-.790	.322	1.062	1.200	.802
3	-.261	-.837	-.986	.532	1.189	1.160	.693
4	-.557	-1.137	-1.294	.822	1.193	1.054	.551
5	-.723	-1.267	-1.219	.800	.898	.738	.278
6	*000.000	*000.000	*000.000	-.257	.174	-.078	.024
7	*000.000	*000.000	*000.000	.715	.691	.629	.355
8	*000.000	*000.000	*000.000	.213	-.013	-.190	-.294
9	*000.000	*000.000	*000.000	-.682	-1.043	-1.054	-.872
10	-.598	-1.013	-1.072	-.730	-.888	-.868	-.634
11	-.588	-1.003	*000.000	-.764	-.946	-.730	-.576
12	-.989	-.693	-.487	-.541	-.662	-.515	-.408
13	-.524	-.662	-.701	-.522	-.485	-.383	-.323
14	-.645	-.710	-.703	-.518	-.501	-.327	-.271
15	.036	-.166	.253	.223	.035	.039	.040
16	-.040	.048	.125	.039	-.052	-.053	-.043
17	-.618	-.817	-.590	-.278	-.288	-.136	-.109
18	-1.091	-1.347	-1.042	-.584	-.453	-.434	-.299
19	-1.511	-1.818	-1.383	-.965	-.716	-.374	-.417
20	-1.731	-1.967	-1.198	-1.144	-.746	-.622	-.425
21	-1.700	-1.707	-.780	-.832	-.282	-.305	-.229
22	-1.567	-1.226	-.556	-.465	-.152	-.117	-.096
23	-1.289	-.384	-.223	-.204	-.159	-.102	.013
24	-.508	-.007	-.112	-.180	-.118	-.093	-.063
25	1.061	1.015	.587	-.697	-.305	-.085	-.074
26	.711	1.029	.827	-.674	*000.000	-.391	.085
27	.172	.521	.546	-.248	-.161	-.051	-.039
28	.047	.349	.444	-.178	-.145	-.018	.048
29	.106	.379	.351	.061	-.115	.022	.097
30	.754	1.052	.883	.027	-.078	.028	.027
31	.311	.571	.543	.585	.101	.026	.184
32	.556	.828	.799	.643	.098	.125	.345
33	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.475	-.249	-1.095	-.027	.763	.966	.382
2	-.355	-1.188	-1.587	.509	1.149	1.198	.526
3	-.572	-1.411	-1.655	.628	1.156	1.166	.390
4	-.886	-1.633	-1.719	.850	1.097	.944	.204
5	-1.044	-1.678	-1.653	.831	.828	.594	.104
6	*000.000	*000.000	*000.000	-.167	-.048	.059	-.027
7	*000.000	*000.000	*000.000	.587	.638	.635	.376
8	*000.000	*000.000	*000.000	.015	-.293	-.378	-.379
9	*000.000	*000.000	*000.000	-.775	-1.211	-1.298	-1.009
10	-.773	-1.256	-1.354	-.928	-1.114	-.999	-.796
11	-.648	-1.076	*000.000	-.839	-1.034	-.773	-.651
12	-1.078	-.768	-.503	-.643	-.772	-.509	-.533
13	-.654	-.746	-.711	-.584	-.557	-.443	-.370
14	-.797	-.775	-.725	-.596	-.567	-.450	-.397
15	-.137	-.333	.308	.254	.143	.133	-.010
16	-.195	.026	.145	.034	-.035	.024	.007
17	-.757	-.832	-.546	-.293	-.356	-.181	-.243
18	-1.360	-1.348	-1.033	-.765	-.769	-.599	-.447
19	-1.802	-1.852	-1.189	-1.140	-1.003	-.599	-.695
20	-2.211	-2.036	-1.047	-1.164	-.826	-.896	-.877
21	-2.213	-1.851	-.810	-1.036	-.682	-.584	-.465
22	-2.030	-1.382	-.582	-.596	-.206	-.145	-.145
23	-1.421	-.450	-.146	-.202	-.128	-.105	-.086
24	-.587	-.056	-.111	-.232	-.121	-.143	-.152
25	1.101	.893	.223	-.343	.094	.186	.178
26	.852	1.042	.786	-.423	*000.000	-.004	-.020
27	.272	.640	.691	-.138	.008	.051	-.055
28	.110	.431	.570	-.116	-.037	-.041	.005
29	.071	.438	.424	.181	.031	.069	.191
30	.644	1.003	.951	.206	.212	.231	.193
31	.741	.976	.958	.314	.234	.314	.233
32	.524	.758	.810	.538	.269	.249	.418
33	.301	.585	.630	.577	.363	.473	.320

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.228	-.861	-2.072	.397	1.006	1.144	.317
2	-.749	-1.987	-2.752	.692	1.279	1.280	.211
3	-.949	-2.110	-2.784	.688	1.222	1.100	.271
4	-1.275	-2.181	-2.579	.835	.998	.797	.056
5	-1.243	-2.040	-2.094	.589	.625	.367	-.099
6	*000.000	*000.000	*000.000	-.086	.052	.008	-.018
7	*000.000	*000.000	*000.000	.520	.528	.539	.230
8	*000.000	*000.000	*000.000	-.100	-.516	-.628	-.681
9	*000.000	*000.000	*000.000	-.975	-1.530	-1.552	-1.203
10	-.898	-1.449	-.578	-.978	-1.397	-1.275	-.985
11	-.805	-1.182	*000.000	-.939	-1.200	-.989	-.729
12	-1.114	-.830	-.544	-.698	-.861	-.666	-.634
13	-.803	-.804	-.702	-.710	-.722	-.501	-.518
14	-1.027	-.783	-.690	-.670	-.743	-.520	-.406
15	-.325	-.482	.370	.326	.223	.276	-.050
16	-.415	.005	.143	.104	-.005	.059	.026
17	-1.027	-.832	-.580	-.341	-.491	-.252	-.263
18	-1.670	-1.406	-.975	-.860	-.889	-.827	-.597
19	-2.378	-1.941	-1.099	-1.357	-1.348	-.787	-.870
20	-2.955	-2.169	-.956	-1.630	-1.455	-1.343	-.985
21	-2.739	-1.885	-.734	-1.270	-1.153	-.899	-.771
22	-2.459	-1.378	-.499	-.843	-.321	-.470	-.512
23	-1.593	-.494	-.205	-.195	-.147	-.156	-.234
24	-.733	-.062	-.088	-.159	-.148	-.123	-.197
25	1.017	.562	-.623	-.053	.269	.295	.240
26	.978	1.060	.785	-.327	*000.000	.012	-.085
27	.409	.821	.833	-.070	.065	-.027	-.144
28	.165	.559	.685	.063	-.017	.021	.007
29	.063	.527	.606	.441	.356	.329	.223
30	.561	.957	.907	.480	.384	.345	.274
31	.649	1.003	1.006	.697	.453	.489	.184
32	.444	.785	.855	.865	.554	.484	.389
33	.268	.562	.667	.746	.612	.499	.111

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.128	-1.630	-3.161	.760	1.118	1.143	.033
2	-1.175	-2.680	-3.844	.793	1.224	1.130	-.179
3	-1.395	-2.816	-3.646	.818	1.142	1.006	-.152
4	-1.589	-2.728	-3.404	.680	.847	.637	-.279
5	-1.484	-2.412	-2.587	.543	.451	.139	-.334
6	*000.000	*000.000	*000.000	-.176	-.027	-.139	-.053
7	*000.000	*000.000	*000.000	.394	.471	.460	-.135
8	*000.000	*000.000	*000.000	-.424	-.711	-.802	-.744
9	*000.000	*000.000	*000.000	-1.308	-1.995	-1.992	-1.354
10	-1.061	-1.651	-1.860	-1.284	-1.571	-1.462	-1.020
11	.620	.997	*000.000	1.014	.817	.584	.376
12	-1.259	-.956	-.714	-.852	-1.027	-.775	-.578
13	-1.009	-.914	-.726	-.802	-.833	-.674	-.509
14	-1.298	-.909	-.702	-.812	-.844	-.640	-.457
15	-.521	-.618	.394	.471	.363	.296	.203
16	-.721	-.073	.136	.124	.017	-.034	-.004
17	-1.436	-1.036	-.656	-.575	-.759	-.427	-.291
18	-2.188	-1.698	-1.211	-1.188	-1.267	-1.202	-.808
19	-2.952	-2.157	-1.493	-1.716	-1.784	-1.075	-.936
20	-3.370	-2.208	-1.242	-1.861	-1.696	-1.475	-.961
21	-3.503	-2.136	-1.088	-1.605	-1.614	-1.268	-.819
22	-2.974	-1.548	-.723	-1.156	-.826	-.811	-.682
23	-1.646	-.520	-.293	-.205	-.142	-.207	-.376
24	-.869	-.063	-.087	-.248	-.157	-.239	-.204
25	.982	.235	-1.347	.281	.346	.292	.078
26	1.106	1.078	.676	-.343	*000.000	-.135	-.107
27	.601	.982	.956	-.108	-.050	-.069	-.185
28	.217	.626	.758	.145	-.052	-.046	.056
29	.028	.534	.639	.571	.451	.293	.238
30	.431	1.022	1.025	.913	.677	.528	.110
31	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
32	.421	.785	.894	.882	.828	.568	.485
33	.221	.559	.692	.669	.648	.384	.163

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.691	-2.483	-4.346	.999	1.175	1.209	-.334
2	-1.909	-3.802	-5.224	.914	1.204	1.146	-.468
3	-1.880	-3.594	-4.478	.733	.973	.926	-.448
4	-1.991	-3.298	-4.071	.564	.605	.449	-.569
5	-1.745	-2.793	-3.181	.339	.203	-.009	-.725
6	*000.000	*000.000	*000.000	-.132	-.087	-.016	-.093
7	*000.000	*000.000	*000.000	.294	.363	.221	-.354
8	*000.000	*000.000	*000.000	-.703	-1.022	-.891	-.879
9	*000.000	*000.000	*000.000	-1.684	-2.253	-1.992	-1.389
10	-1.177	-1.779	-1.938	-1.553	-1.790	-1.469	-1.119
11	-1.011	-1.383	*000.000	-1.230	-1.454	-.906	-.728
12	-1.300	-.976	-.788	-.905	-1.067	-.686	-.692
13	-1.210	-.946	-.770	-.850	-.931	-.697	-.512
14	-1.559	-.989	-.787	-.832	-.977	-.717	-.487
15	-.664	-.659	.382	.470	.357	.254	.012
16	-.826	-.090	.131	.164	-.007	-.089	-.125
17	-1.539	-.971	-.606	-.527	-.815	-.495	-.361
18	-2.326	-1.550	-1.131	-1.241	-1.415	-1.189	-.855
19	-3.272	-2.074	-1.293	-1.932	-2.037	-1.225	-1.092
20	-3.689	-2.283	-1.111	-2.035	-1.976	-1.752	-1.350
21	-3.522	-1.962	-.944	-1.750	-1.719	-1.313	-.996
22	-2.924	-1.385	-.662	-1.219	-1.039	-1.098	-.837
23	-1.740	-.586	-.328	-.374	-.327	-.305	-.515
24	-1.073	-.097	-.131	-.237	-.252	-.250	-.249
25	.731	-.455	-1.989	.661	.417	.415	-.146
26	1.018	.893	.532	-.148	*000.000	-.029	-.124
27	.641	.970	.946	-.043	-.061	-.028	-.031
28	.196	.618	.781	.466	-.073	-.010	.073
29	-.016	.523	.647	.612	.539	.437	.221
30	.278	.905	.921	1.007	.800	.562	-.026
31	.451	.933	.976	1.078	.966	.653	.188
32	.350	.754	.876	.896	.861	.667	.409
33	.209	.484	.605	.648	.615	.388	.026

Table 27. - Continued.

(b) $C_{T,s} = 0.80$, $q_s = 20.01$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.039	-3.159	-4.856	1.095	1.231	1.232	-.300
2	-2.034	-4.028	-5.453	.901	1.123	1.065	-.606
3	-2.351	-4.266	-5.471	.800	.965	.965	-.458
4	-2.261	-3.773	-4.729	.551	.591	.477	-.666
5	-2.063	-3.244	-3.616	.262	.148	.071	-.823
6	*000.000	*000.000	*000.000	-.083	-.014	.015	-.004
7	*000.000	*000.000	*000.000	.254	.306	.357	-.445
8	*000.000	*000.000	*000.000	-.903	-1.072	-.804	-.847
9	*000.000	*000.000	*000.000	-2.058	-2.246	-1.740	-1.026
10	-1.304	-1.935	-2.063	-1.780	-1.804	-1.269	-.776
11	-1.112	-1.507	*000.000	-1.383	-1.492	-.829	-.610
12	-1.155	-.973	-.804	-.918	-.964	-.609	-.508
13	-1.313	-.967	-.773	-.869	-.864	-.594	-.463
14	-1.610	-.991	-.785	-.818	-.863	-.587	-.441
15	-.792	-.679	.358	.512	.361	.406	.104
16	-.499	-.120	.091	.215	.030	-.013	-.045
17	-1.728	-1.051	-.762	-.597	-.880	-.476	-.342
18	-2.534	-1.665	-1.285	-1.301	-1.427	-1.143	-.624
19	-3.311	-2.124	-1.393	-1.840	-1.958	-1.173	-.965
20	-3.785	-2.273	-1.326	-2.096	-2.054	-1.732	-1.138
21	-3.832	-2.045	-1.140	-1.824	-1.836	-1.692	-1.095
22	-3.213	-1.481	-.912	-1.251	-1.271	-1.356	-.863
23	-1.709	-.490	-.464	-.261	-.349	-.371	-.659
24	-1.149	-.171	-.211	-.237	-.380	-.210	-.243
25	.477	-.880	-2.393	.611	.535	.449	.004
26	1.014	.812	.475	-.066	*000.000	-.002	-.140
27	.722	1.009	.954	-.034	-.048	.009	.099
28	.279	.728	.862	.670	.023	-.003	.157
29	-.033	.571	.712	.711	.627	.322	.311
30	.294	.976	.983	1.121	.941	.676	.143
31	.435	.977	1.030	1.197	1.011	.767	.255
32	.335	.805	.854	1.012	.990	.745	.357
33	.166	.491	.614	.707	.661	.398	.210

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.757	-3.995	-5.611	1.104	1.342	1.278	-.515
2	-2.751	-4.827	-6.167	.863	1.097	1.036	-.785
3	-2.934	-4.978	-5.928	.768	.960	.805	-.867
4	-2.763	-4.294	-4.980	.547	.528	.445	-.772
5	-2.353	-3.408	-3.688	.185	.108	-.042	-.751
6	*000.000	*000.000	*000.000	-.039	-.007	.004	-.036
7	*000.000	*000.000	*000.000	.141	.040	.279	-.490
8	*000.000	*000.000	*000.000	-1.106	-1.135	-.712	-.788
9	*000.000	*000.000	*000.000	-2.335	-2.336	-1.685	-1.138
10	-1.462	-2.055	-2.080	-1.910	-1.901	-1.143	-.776
11	-1.217	-1.482	*000.000	-1.379	-1.395	-.748	-.616
12	-1.234	-1.093	-.855	-1.024	-.995	-.540	-.489
13	-1.548	-1.057	-.846	-.967	-.773	-.486	-.442
14	-2.039	-1.166	-.877	-.910	-.846	-.577	-.499
15	-.988	-.740	.405	.568	.463	.357	-.025
16	-1.091	-.187	.088	.172	.131	-.004	-.102
17	-1.984	-1.189	-.773	-.690	-.804	-.510	-.398
18	-2.716	-1.710	-1.248	-1.337	-1.391	-1.149	-.752
19	-3.649	-2.241	-1.645	-2.093	-2.071	-1.176	-1.203
20	-4.045	-2.384	-1.455	-2.229	-2.143	-1.694	-1.163
21	-3.559	-1.987	-1.178	-1.714	-1.772	-1.367	-.955
22	-3.126	-1.509	-.966	-1.120	-1.370	-1.348	-.951
23	-1.861	-.581	-.517	-.235	-.420	-.622	-.677
24	-1.284	-.182	-.265	-.204	-.218	-.163	-.207
25	.118	-1.341	-2.818	.686	.650	.455	-.121
26	1.021	.770	.413	-.040	*000.000	.027	-.138
27	.705	.978	1.006	.018	-.069	0.	.100
28	.250	.772	.615	.806	.031	.097	.176
29	-.072	.543	.688	.638	.604	.282	.223
30	.096	.913	.992	.944	.986	.719	.058
31	.341	.974	1.003	1.120	1.200	.782	.269
32	.240	.774	.801	.913	.960	.626	.303
33	.139	.482	.656	.653	.681	.394	.188

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.200	-4.506	-6.243	1.125	1.256	1.164	-.708
2	-3.431	-5.382	-6.786	.768	1.023	.945	-.941
3	-3.527	-5.414	-6.371	.678	.838	.680	-.835
4	-3.090	-4.591	-5.172	.296	.398	.273	-.816
5	-2.785	-3.955	-4.183	.032	.016	-.200	-.850
6	*000.000	*000.000	*000.000	.014	-.065	-.009	-.012
7	*000.000	*000.000	*000.000	-.172	.028	.386	-.528
8	*000.000	*000.000	*000.000	-1.322	-1.199	-.725	-.712
9	*000.000	*000.000	*000.000	-2.462	-2.387	-1.541	-.923
10	-1.717	-2.277	-2.226	-2.175	-1.924	-1.110	-.760
11	-1.376	-1.626	*000.000	-1.542	-1.428	-.690	-.531
12	-1.227	-1.102	-.869	-.995	-.896	-.535	-.448
13	-1.648	-1.049	-.872	-.954	-.760	-.480	-.438
14	-2.056	-1.085	-.845	-.915	-.767	-.486	-.393
15	-.966	-.721	.363	.490	.400	.347	-.075
16	-1.135	-.222	.025	.129	.131	.019	.016
17	-2.019	-1.246	-.884	-.728	-.874	-.443	-.339
18	-2.662	-1.782	-1.395	-1.432	-1.378	-1.096	-.733
19	-3.934	-2.310	-1.712	-2.140	-1.927	-1.221	-.940
20	-3.847	-2.211	-1.558	-2.267	-2.053	-1.751	-1.133
21	-3.590	-1.991	-1.437	-1.929	-1.872	-1.443	-.985
22	-2.889	-1.371	-1.114	-1.346	-1.381	-1.239	-.881
23	-1.688	-.617	-.552	-.271	-.510	-.592	-.640
24	-1.034	-.257	-.254	-.108	-.119	-.174	-.191
25	-.128	-1.831	-3.340	.854	.714	.453	-.157
26	1.011	.747	.349	-.093	*000.000	-.034	-.165
27	.735	1.057	.977	.065	-.108	-.038	.078
28	.238	.790	.929	.856	.135	.110	.158
29	-.159	.511	.700	.625	.529	.270	.158
30	.070	1.038	1.078	1.091	1.086	.788	.159
31	.278	1.023	.951	1.142	1.113	.647	.150
32	.263	.817	.774	.960	.966	.676	.222
33	.118	.455	.577	.639	.635	.351	.163

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.816	-4.958	-6.318	1.132	1.269	.983	-.731
2	-4.047	-6.115	-7.063	.749	.986	.771	-.970
3	-3.912	-5.722	-6.418	.537	.726	.545	-.961
4	-3.526	-5.053	-5.418	.201	.350	.243	-.908
5	-3.000	-4.071	-4.107	-.124	-.024	-.117	-.707
6	*000.000	*000.000	*000.000	-.033	.016	-.022	-.114
7	*000.000	*000.000	*000.000	-.220	-.012	.477	-.473
8	*000.000	*000.000	*000.000	-1.413	-1.198	-.474	-.724
9	*000.000	*000.000	*000.000	-2.627	-2.280	-1.162	-.717
10	-1.758	-2.317	-2.142	-2.264	-1.794	-.905	-.594
11	-1.453	-1.699	*000.000	-1.620	-1.328	-.562	-.448
12	-1.241	-1.127	-.855	-1.018	-.794	-.430	-.406
13	-1.893	-1.062	-.866	-.906	-.582	-.432	-.366
14	-2.121	-1.193	-.947	-.954	-.714	-.456	-.430
15	-.911	-.743	.410	.458	.400	.285	-.015
16	-1.771	-1.246	-.809	-.693	-.490	-.170	-.304
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	-2.638	-1.862	-1.457	-1.469	-1.099	-.968	-.603
19	-3.223	-2.182	-1.718	-2.111	-1.582	-.897	-.926
20	-3.769	-2.182	-1.679	-2.117	-1.609	-1.212	-.819
21	-3.088	-1.888	-1.406	-1.781	-1.506	-1.121	-.799
22	-2.435	-1.421	-1.183	-1.427	-1.222	-1.047	-.721
23	-1.449	-.686	-.445	-.340	-.490	-.476	-.573
24	-.874	-.300	-.268	-.114	-.065	-.130	-.121
25	-.744	-2.188	-3.683	.968	.778	.379	-.551
26	.958	.649	.377	-.056	*000.000	-.056	-.175
27	.739	1.070	1.005	-.023	-.082	-.057	.067
28	.279	.786	.970	.816	.142	.264	.153
29	-.169	.525	.742	.578	.511	.241	.162
30	.115	.982	1.059	1.006	1.011	.633	.064
31	.317	1.043	.906	1.111	1.237	.767	-.009
32	.235	.802	.732	.918	.950	.573	.191
33	.190	.425	.612	.597	.592	.345	.006

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-4.095	-5.880	-7.064	1.177	1.305	.732	-.707
2	-4.642	-6.446	-7.092	.697	.953	.491	-.693
3	-4.660	-6.484	-6.881	.492	.682	.424	-.548
4	-4.224	-5.604	-5.770	.159	.343	.263	-.621
5	-3.213	-4.225	-4.032	-.075	-.002	-.033	-.550
6	*000.000	*000.000	*000.000	-.011	-.051	-.075	-.098
7	*000.000	*000.000	*000.000	-.310	-.050	.427	-.261
8	*000.000	*000.000	*000.000	-1.428	-1.121	-.424	-.416
9	*000.000	*000.000	*000.000	-2.636	-2.271	-1.099	-.635
10	-1.932	-2.534	-2.244	-2.339	-1.769	-.710	-.376
11	-1.405	-1.688	*000.000	-1.477	-1.159	-.465	-.310
12	-1.271	-1.198	-.945	-.994	-.711	-.366	-.349
13	-1.814	-1.114	-.918	-.805	-.464	-.345	-.285
14	-1.771	-1.113	-.897	-.843	-.497	-.440	-.405
15	-1.029	-.745	.283	.498	.419	.309	-.088
16	-.917	-.228	.020	.126	.242	.075	-.108
17	-1.750	-1.255	-.876	-.666	-.359	-.191	-.247
18	-2.771	-1.949	-1.558	-1.320	-.841	-.609	-.541
19	-3.033	-2.053	-1.754	-1.904	-1.325	-.921	-.765
20	-3.164	-2.108	-1.744	-1.916	-1.140	-1.086	-.843
21	-2.621	-1.829	-1.549	-1.774	-1.375	-.826	-.543
22	-2.251	-1.404	-1.226	-1.164	-.814	-.633	-.617
23	-1.453	-.741	-.428	-.363	-.550	-.585	-.669
24	-.717	-.314	-.286	-.043	-.080	-.109	-.160
25	-1.559	-2.417	-3.444	.908	.789	.490	-.449
26	.512	.636	.309	-.074	*000.000	.011	-.139
27	.534	1.080	1.000	.060	-.048	.005	.158
28	.143	.724	.886	.762	.244	.176	.159
29	-.234	.452	.677	.564	.498	.175	.174
30	.131	.951	.938	.949	.996	.527	.068
31	.151	1.011	.783	.984	1.103	.622	.085
32	.175	.759	.698	.906	.894	.500	.145
33	.147	.406	.521	.662	.614	.366	.078

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-4.970	-6.229	-6.648	1.057	1.212	.633	-.642
2	-5.134	-6.841	-6.959	.686	.983	.496	-.425
3	-5.181	-7.062	-6.886	.374	.549	.392	-.547
4	-4.307	-5.703	-5.595	.079	.249	.070	-.518
5	-3.289	-4.524	-4.027	-.170	-.061	-.026	-.419
6	*000.000	*000.000	*000.000	-.044	-.031	-.076	-.056
7	*000.000	*000.000	*000.000	-.389	-.195	.471	-.203
8	*000.000	*000.000	*000.000	-1.500	-1.168	-.260	-.295
9	*000.000	*000.000	*000.000	-2.809	-2.381	-1.050	-.428
10	-1.740	-2.543	-2.151	-2.257	-1.650	-.595	-.205
11	-1.265	-1.598	*000.000	-1.368	-1.003	-.380	-.261
12	-1.177	-1.167	-.865	-.848	-.519	-.247	-.295
13	-1.611	-1.094	-.943	-.812	-.519	-.291	-.255
14	-1.684	-1.143	-.957	-.790	-.456	-.359	-.325
15	-.939	-.662	.323	.499	.414	.313	-.148
16	-.853	-.240	-.009	.219	.361	.134	-.057
17	-1.488	-1.241	-.876	-.687	-.350	-.266	-.270
18	-2.259	-1.755	-1.512	-1.314	-.873	-.774	-.627
19	-2.446	-1.958	-1.684	-1.644	-1.071	-.822	-.620
20	-2.459	-1.874	-1.629	-1.718	-1.075	-.938	-.786
21	-2.438	-1.739	-1.458	-1.674	-1.202	-.820	-.591
22	-1.733	-1.317	-1.221	-1.166	-.939	-.722	-.569
23	-1.150	-.648	-.400	-.451	-.516	-.462	-.527
24	-.552	-.295	-.293	-.098	-.116	-.113	-.201
25	-2.344	-2.594	-3.383	.895	.729	.058	-.240
26	.059	.602	.331	-.158	*000.000	.015	-.134
27	.359	1.059	1.058	-.037	-.114	.024	.099
28	.137	.667	.830	.750	.214	.068	.090
29	-.143	.394	.659	.532	.445	.178	.167
30	.194	.983	.866	.978	.864	.480	-.051
31	.283	1.072	.821	1.100	1.195	.715	-.005
32	.200	.690	.569	.833	.855	.424	.128
33	.173	.351	.492	.630	.564	.374	.178

Table 27. - Continued.

(b) $C_{T,S} = 0.80$, $q_s = 20.01$

$\alpha = 65°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-4.996	-6.317	-6.263	1.029	1.209	.193	-.436
2	-5.671	-7.560	-7.242	.613	.959	.558	-.268
3	-5.037	-6.975	-6.256	.443	.647	.302	-.246
4	-4.190	-5.894	-5.269	.168	.396	.301	-.191
5	-3.120	-4.744	-4.025	-.224	-.064	-.015	-.146
6	*000.000	*000.000	*000.000	-.034	.041	-.003	-.023
7	*000.000	*000.000	*000.000	-.499	-.157	.190	-.169
8	*000.000	*000.000	*000.000	-1.667	-1.213	-.226	-.389
9	*000.000	*000.000	*000.000	-2.527	-1.963	-.645	-.152
10	-1.643	-2.578	-2.050	-2.226	-1.528	-.451	-.179
11	-1.245	-1.752	*000.000	-1.544	-1.004	-.352	-.208
12	-1.136	-1.111	-.829	-.849	-.521	-.282	-.220
13	-1.597	-1.106	-.918	-.838	-.479	-.330	-.287
14	-1.544	-1.101	-.856	-.661	-.313	-.272	-.271
15	-.912	-.521	.357	.546	.464	.315	.056
16	-.828	-.238	-.025	.176	.302	.098	-.025
17	-1.387	-1.122	-.773	-.688	-.418	-.309	-.264
18	-1.896	-1.626	-1.346	-1.155	-.716	-.592	-.473
19	-2.331	-1.827	-1.536	-1.433	-.997	-.796	-.529
20	-1.963	-1.733	-1.521	-1.632	-1.010	-.673	-.395
21	-1.911	-1.525	-1.450	-1.544	-.947	-.767	-.678
22	-1.407	-1.199	-1.188	-1.140	-.842	-.744	-.631
23	-.804	-.489	-.368	-.357	-.361	-.381	-.357
24	-.518	-.300	-.394	0.	.025	-.134	-.069
25	-3.363	-3.301	-3.407	.961	.845	.160	-.277
26	-.446	.263	.356	-.193	*000.000	-.001	-.089
27	.066	.884	.999	.039	0.	.071	.123
28	-.016	.547	.847	.769	.265	.084	.144
29	-.209	.303	.560	.520	.454	.183	.195
30	.113	.951	.766	.967	.927	.619	.011
31	.205	.984	.724	1.157	1.181	.669	.041
32	.064	.575	.602	.809	.816	.502	.175
33	.173	.226	.466	.640	.509	.303	.141

$\alpha = 70°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-5.753	-7.440	-6.762	1.163	1.244	.278	-.044
2	-5.239	-7.595	-7.007	.678	.902	.621	.124
3	-4.745	-6.998	-6.052	.482	.682	.337	-.075
4	-3.685	-6.059	-5.347	.002	.299	.078	-.122
5	-2.740	-5.019	-4.138	-.306	-.149	.008	-.093
6	*000.000	*000.000	*000.000	-.072	-.020	-.009	.053
7	*000.000	*000.000	*000.000	-.539	-.176	.208	-.155
8	*000.000	*000.000	*000.000	-1.634	-1.066	-.099	-.126
9	*000.000	*000.000	*000.000	-2.609	-1.800	-.617	-.355
10	-1.418	-2.570	-2.106	-2.411	-1.665	-.602	-.441
11	-.955	-1.441	*000.000	-1.196	-.598	-.182	-.152
12	-1.081	-1.080	-.825	-.670	-.338	-.232	-.186
13	-1.428	-.987	-.881	-.655	-.375	-.305	-.236
14	-1.460	-1.009	-.897	-.720	-.504	-.268	-.269
15	-.826	-.505	.280	.425	.397	.320	-.092
16	-.733	-.140	-.012	.164	.280	.130	-.055
17	-1.047	-.902	-.679	-.550	-.575	-.225	-.297
18	-1.484	-1.411	-1.270	-.875	-.721	-.549	-.554
19	-1.465	-1.592	-1.544	-1.598	-.959	-.585	-.692
20	-1.596	-1.489	-1.395	-1.268	-.752	-.502	-.428
21	-1.310	-1.293	-1.325	-.986	-.805	-.464	-.400
22	-1.113	-1.031	-1.135	-.962	-.649	-.569	-.519
23	-.572	-.393	-.372	-.464	-.426	-.412	-.392
24	-.451	-.342	-.293	-.124	-.123	-.132	-.098
25	-4.063	-3.954	-3.350	.894	.686	.079	-.091
26	-.852	-.119	.300	-.183	*000.000	-.001	-.091
27	-.275	.505	.915	-.064	.013	.019	.025
28	-.035	.410	.793	.738	-.041	.102	.129
29	-.151	.255	.474	.449	.392	.113	.113
30	.138	.903	.663	.898	.880	.626	-.021
31	.222	.918	.648	1.031	1.101	.686	.118
32	.141	.569	.622	.838	.794	.530	.172
33	.110	.154	.398	.587	.419	.292	.138

$\alpha = 75°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-5.046	-7.064	-6.099	1.086	1.103	-.013	-.126
2	-4.746	-7.511	-6.305	.669	.929	-.029	-.105
3	-3.173	-5.040	-5.619	.466	.804	-.014	.010
4	-3.229	-5.953	-5.238	.037	.377	-.179	-.114
5	-2.188	-4.165	-3.734	-.157	.183	-.173	-.127
6	*000.000	*000.000	*000.000	-.060	-.046	-.009	.011
7	*000.000	*000.000	*000.000	-.284	.363	-.035	-.199
8	*000.000	*000.000	*000.000	-1.435	-.732	-.186	-.175
9	*000.000	*000.000	*000.000	-2.326	-1.312	-.053	-.169
10	-1.315	-2.190	-1.807	-2.085	-1.056	-.187	-.211
11	-.981	-1.417	*000.000	-1.249	-.678	-.125	-.149
12	-1.107	-1.007	-.807	-.705	-.440	-.209	-.262
13	-1.065	-.918	-.848	-.595	-.222	-.158	-.141
14	-1.115	-.816	-.767	-.516	-.303	-.169	-.251
15	-.734	-.548	.204	.510	.395	.262	.029
16	-.561	-.162	-.069	.256	.214	.129	-.138
17	-1.001	-.803	-.724	-.397	-.414	-.151	-.269
18	-1.204	-1.206	-1.201	-.853	-.579	-.487	-.464
19	-1.014	-1.187	-1.378	-.988	-.825	-.481	-.404
20	-1.118	-1.182	-1.347	-1.079	-.785	-.377	-.442
21	-1.035	-1.078	-1.138	-.775	-.685	-.437	-.518
22	-.856	-.861	-1.092	-.953	-.817	-.528	-.457
23	-.516	-.379	-.332	-.285	-.386	-.321	-.253
24	-.427	-.222	-.111	-.195	-.131	-.107	-.087
25	-4.253	-4.441	-3.604	.975	.656	-.124	-.033
26	-.950	-.415	.286	-.118	*000.000	-.021	-.079
27	-.459	.156	.888	-.061	-.037	-.037	.020
28	-.098	.339	.803	.691	-.068	0.	.050
29	-.090	.190	.426	.433	.395	.154	.153
30	.053	.753	.550	.933	.763	.390	.052
31	.146	.683	.590	1.024	1.034	.507	.064
32	.057	.377	.538	.798	.677	.466	.204
33	.026	.168	.413	.606	.510	.379	.101

Table 27. - Continued.

(c) $C_{T,S} = 0.60$, $q_S = 21.67$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.411	.516	.199	.039	.610	.687	.639
2	.215	-.244	-.388	.639	1.130	1.151	.938
3	-.065	-.633	-.674	.697	1.178	1.178	.810
4	0.	-.141	-.173	-.273	-.128	-.226	-.241
5	-.764	-1.299	-1.250	.715	.884	.717	.415
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	.438	.580	.549	.362
8	*000.000	*000.000	*000.000	-.277	-.351	-.380	-.448
9	*000.000	*000.000	*000.000	-1.269	-1.376	-1.376	-1.235
10	-.419	-1.287	-1.347	-1.287	-1.274	-1.235	-1.097
11	-.760	-1.187	*000.000	-1.100	-1.129	-.947	-.841
12	-1.219	-.904	-.848	-.823	-.838	-.645	-.608
13	-.638	-.841	-.749	-.640	-.596	-.467	-.446
14	-.803	-.888	-.781	-.644	-.557	-.452	-.403
15	-.024	-.249	.100	.084	-.019	.101	-.037
16	-.059	-.081	.074	-.063	-.040	-.033	-.048
17	-.724	-.985	-.633	-.444	-.322	-.247	-.264
18	-1.323	-1.570	-1.359	-.812	-.485	-.464	-.460
19	-1.947	-2.049	-1.914	-1.263	-.717	-.492	-.660
20	-1.971	-1.986	-1.641	-1.223	-.564	-.682	-.690
21	-2.104	-1.931	-1.537	-1.008	-.379	-.467	-.504
22	-1.864	-1.363	-.999	-.560	-.201	-.224	-.247
23	-1.555	-.359	-.194	-.345	-.186	-.193	-.186
24	-.746	-.193	-.070	-.246	-.168	-.139	-.138
25	1.002	1.038	.522	-.423	-.078	-.112	-.034
26	.536	.856	.611	-.438	*000.000	-.318	.058
27	-.009	.245	.254	-.187	-.003	-.067	-.189
28	-.011	.117	.236	-.129	-.030	-.086	-.077
29	.101	.324	.316	.089	.052	.129	.116
30	.735	1.017	.855	.028	.048	.134	.176
31	.805	.972	.921	.083	.105	.166	.318
32	.532	.774	.706	.450	.090	.150	.205
33	.303	.530	.541	.354	.136	.347	.326

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.643	.033	-.763	.506	.999	1.054	.879
2	-.248	-1.107	-1.405	.444	1.253	1.195	.854
3	-.576	-1.589	-1.681	.679	1.253	1.132	.641
4	-.869	-1.661	-1.584	.702	.998	.812	.415
5	-.994	-1.742	-1.675	.398	.638	.428	.161
6	*000.000	*000.000	*000.000	-.082	.012	.005	.049
7	*000.000	*000.000	*000.000	.316	.563	.509	.276
8	*000.000	*000.000	*000.000	-.464	-.583	-.685	-.742
9	*000.000	*000.000	*000.000	-1.463	-1.740	-1.848	-1.612
10	-.924	-1.447	-1.597	-1.448	-1.536	-1.586	-1.339
11	-.831	-1.299	*000.000	-1.240	-1.306	-1.112	-.987
12	-1.252	-.938	-.916	-.852	-.920	-.799	-.694
13	-.744	-.921	-.840	-.739	-.734	-.647	-.576
14	-.931	-.953	-.838	-.679	-.655	-.592	-.539
15	-.150	-.368	.149	.116	.171	.132	-.033
16	-.293	-.089	.011	-.035	-.008	-.075	-.097
17	-.874	-.975	-.665	-.409	-.458	-.360	-.370
18	-1.589	-1.580	-1.357	-.936	-.720	-.790	-.542
19	-2.226	-2.042	-1.846	-1.394	-.980	-.783	-.860
20	-2.711	-2.264	-1.864	-1.443	-.880	-.924	-.820
21	-2.638	-1.966	-1.515	-1.230	-.556	-.697	-.599
22	-2.374	-1.427	-1.127	-.448	-.238	-.330	-.362
23	-1.510	-.330	-.277	-.266	-.154	-.229	-.198
24	-.728	-.178	-.073	-.191	-.131	-.144	-.159
25	1.136	1.011	.163	-.253	.142	.101	.109
26	.840	1.007	.568	-.177	*000.000	-.039	-.052
27	.290	.578	.488	-.086	-.024	0.	-.089
28	.047	.286	.381	-.036	-.017	.011	.023
29	.104	.379	.364	.214	.157	.143	.199
30	.642	.955	.790	.242	.278	.228	.135
31	.738	.986	.741	.407	.344	.333	.393
32	.476	.735	.572	.546	.522	.490	.562
33	.295	.536	.515	.579	.215	.398	.369

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.861	-1.038	-2.324	.677	1.186	1.282	.946
2	-.791	-2.004	-2.552	.599	1.252	1.162	.733
3	-1.040	-2.232	-2.595	.504	1.015	.908	.424
4	-1.358	-2.345	-2.469	.449	.763	.574	.141
5	-1.328	-2.220	-2.206	.165	.320	.132	-.139
6	*000.000	*000.000	*000.000	-.050	.082	.095	-.025
7	*000.000	*000.000	*000.000	.134	.160	-.123	-.335
8	*000.000	*000.000	*000.000	-.775	-.889	-.987	-1.106
9	*000.000	*000.000	*000.000	-1.958	-2.236	-2.153	-1.949
10	-1.120	-1.699	-1.785	-1.682	-1.871	-1.770	-1.581
11	-1.044	-1.553	*000.000	-1.469	-1.668	-1.432	-1.294
12	-1.353	-1.016	-.911	-.972	-1.092	-.921	-.822
13	-.943	-.994	-.844	-.794	-.860	-.769	-.700
14	-1.182	-1.009	-.788	-.711	-.803	-.660	-.594
15	-.363	-.462	.293	.380	.273	.256	-.063
16	-.555	-.142	.036	.042	-.033	-.130	-.091
17	-1.257	-1.136	-.702	-.507	-.715	-.527	-.439
18	-2.077	-1.752	-1.311	-1.110	-1.103	-1.135	-.815
19	-2.876	-2.220	-1.788	-1.649	-1.449	-1.190	-1.041
20	-3.274	-2.396	-1.770	-1.875	-1.446	-1.377	-1.174
21	-3.621	-2.377	-1.612	-1.693	-1.341	-1.157	-1.059
22	-2.926	-1.584	-1.028	-.989	-.429	-.734	-.739
23	-1.788	-.496	-.270	-.172	-.237	-.269	-.399
24	-1.138	-.218	.106	-.141	-.224	-.238	-.270
25	1.016	.519	-.888	.318	.431	.452	.363
26	.973	1.060	.567	-.151	*000.000	.050	.012
27	.448	.809	.723	-.017	.072	.064	.002
28	.193	.478	.649	.272	.050	.049	.143
29	.067	.442	.500	.537	.414	.385	.295
30	.511	.981	.922	.796	.536	.572	.252
31	.607	.976	.934	.867	.587	.575	.571
32	.428	.733	.679	.728	.707	.591	.746
33	.233	.516	.507	.586	.681	.555	.198

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.517	-2.206	-3.844	.862	1.307	1.299	.547
2	-1.408	-3.029	-4.050	.567	1.031	.897	.206
3	-1.811	-3.444	-4.244	.461	.876	.747	-.022
4	-1.988	-3.393	-3.905	.192	.499	.295	-.368
5	-1.799	-2.908	-2.960	-.032	.058	-.191	-.627
6	*000.000	*000.000	*000.000	.036	.038	.002	-.097
7	*000.000	*000.000	*000.000	-.348	-.413	-.543	-.721
8	*000.000	*000.000	*000.000	-1.157	-1.427	-1.510	-1.581
9	*000.000	*000.000	*000.000	-2.322	-2.830	-2.733	-2.495
10	-1.297	-1.900	-2.091	-1.943	-2.195	-2.091	-1.821
11	-1.124	-1.533	*000.000	-1.466	-1.739	-1.476	-1.394
12	-1.537	-1.137	-1.032	-1.031	-1.263	-1.038	-.991
13	-1.133	-1.049	-.864	-.827	-1.004	-.838	-.759
14	-1.591	-1.108	-.879	-.833	-1.005	-.879	-.780
15	-.606	-.526	.317	.513	.401	.369	.055
16	-.851	-.192	.012	.159	-.031	-.122	-.043
17	-1.660	-1.177	-.759	-.525	-.949	-.639	-.477
18	-2.419	-1.772	-1.377	-1.220	-1.492	-1.458	-1.042
19	-3.425	-2.350	-1.728	-1.854	-1.897	-1.413	-1.276
20	-3.974	-2.588	-1.744	-2.061	-1.996	-1.849	-1.544
21	-3.721	-2.269	-1.385	-1.583	-1.582	-1.427	-1.242
22	-3.541	-1.851	-1.097	-1.171	-1.074	-.920	-1.085
23	-1.774	-.595	-.327	-.254	-.216	-.204	-.340
24	-1.566	-.269	-.019	-.130	-.269	-.261	-.288
25	.744	-.187	-1.802	.634	.691	.713	.369
26	1.034	.977	.464	-.193	*000.000	.026	-.091
27	.596	.949	.789	.142	.060	.058	.087
28	.250	.651	.757	.773	.145	.174	.322
29	.052	.519	.593	.661	.611	.539	.382
30	.337	.953	.897	1.078	.797	.800	.027
31	.488	1.014	.955	1.208	1.054	.936	.669
32	.345	.778	.733	.935	.937	.801	.789
33	.236	.544	.652	.671	.660	.548	.122

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.155	-3.414	-5.148	.835	1.285	1.253	-.257
2	-2.265	-4.524	-5.784	.352	.867	.731	-.419
3	-2.552	-4.796	-5.783	.186	.609	.485	-.636
4	-2.508	-4.265	-4.830	-.097	.170	-.095	-.858
5	-2.311	-3.672	-3.748	-.315	-.358	-.588	-1.073
6	*000.000	*000.000	*000.000	-.002	.020	0.	-.179
7	*000.000	*000.000	*000.000	-.731	-.731	-.719	-1.093
8	*000.000	*000.000	*000.000	-1.741	-1.965	-1.947	-2.037
9	*000.000	*000.000	*000.000	-2.919	-3.171	-2.902	-2.593
10	-1.511	-2.321	-2.703	-2.538	-2.670	-2.425	-2.172
11	-1.191	-1.653	*000.000	-1.670	-1.881	-1.481	-1.343
12	-1.551	-1.201	-1.047	-1.150	-1.357	-1.037	-1.021
13	-1.366	-1.133	-.891	-.915	-1.102	-.863	-.832
14	-1.923	-1.162	-.867	-.898	-1.089	-.850	-.781
15	-.881	-.653	.395	.541	.382	.390	.004
16	-1.147	-.240	.004	.199	-.019	-.075	-.072
17	-2.087	-1.320	-.816	-.643	-1.107	-.832	-.520
18	-3.216	-2.079	-1.496	-1.468	-1.820	-1.722	-1.127
19	-4.081	-2.548	-1.722	-2.089	-2.305	-1.509	-1.379
20	-4.608	-2.750	-1.627	-2.217	-2.309	-2.022	-1.948
21	-4.223	-2.343	-1.297	-1.807	-1.824	-1.525	-1.415
22	-3.539	-1.829	-1.009	-1.312	-1.156	-1.231	-1.250
23	-2.018	-.705	-.382	-.414	-.373	-.370	-.749
24	-1.874	-.141	-.025	-.191	-.332	-.228	-.337
25	.410	-1.117	-2.775	.936	.923	.920	.185
26	.987	.798	.404	-.265	*000.000	.057	-.124
27	.773	1.021	.980	.427	.044	.060	.084
28	.378	.748	.895	.830	.494	.343	.315
29	.072	.573	.708	.693	.667	.573	.362
30	.179	.890	.973	1.055	1.065	.931	.076
31	.446	.975	.970	1.153	1.194	1.060	.473
32	.357	.792	.818	.914	.967	.818	.671
33	.221	.536	.581	.688	.669	.494	.095

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.008	-5.054	-6.929	.976	1.268	1.264	-.551
2	-3.123	-5.908	-7.213	.135	.673	.576	-.993
3	-3.217	-5.796	-6.756	-.067	.316	.278	-1.049
4	-3.228	-5.396	-5.849	-.342	-.054	-.190	-1.148
5	-2.525	-4.065	-3.974	-.575	-.570	-.663	-1.159
6	*000.000	*000.000	*000.000	.049	0.	.033	-.113
7	*000.000	*000.000	*000.000	-.964	-.898	-.744	-1.120
8	*000.000	*000.000	*000.000	-2.181	-2.255	-2.037	-2.138
9	*000.000	*000.000	*000.000	-3.385	-3.495	-2.968	-2.577
10	-1.799	-2.608	-3.328	-2.900	-2.899	-2.404	-1.935
11	-1.368	-1.792	*000.000	-1.826	-1.968	-1.261	-1.078
12	-1.446	-1.196	-1.020	-1.178	-1.309	-.794	-.766
13	-1.708	-1.253	-1.023	-1.113	-1.211	-.782	-.714
14	-2.346	-1.222	-.950	-1.025	-1.169	-.812	-.743
15	-1.068	-.669	.344	.567	.425	.457	.173
16	-1.363	-.229	.047	.216	-.011	-.065	-.119
17	-2.309	-1.280	-.870	-.730	-1.080	-.632	-.351
18	-3.453	-1.995	-1.540	-1.647	-1.869	-1.508	-.939
19	-4.458	-2.593	-1.847	-2.357	-2.473	-1.481	-1.405
20	-4.473	-2.467	-1.534	-2.387	-2.348	-1.829	-1.607
21	-4.483	-2.255	-1.436	-2.295	-2.207	-1.579	-1.448
22	-3.661	-1.684	-1.040	-1.444	-1.292	-1.139	-1.222
23	-2.224	-.596	-.463	-.436	-.385	-.512	-.872
24	-1.701	-.187	-.198	-.220	-.282	-.276	-.298
25	-.023	-1.984	-3.603	1.158	1.082	1.045	-.058
26	.922	.671	.245	-.414	*000.000	.123	-.114
27	.874	1.045	.951	.520	.057	.147	.242
28	.393	.804	.934	.865	1.080	.605	.395
29	.002	.658	.787	.744	.665	.534	.392
30	.157	1.039	1.079	1.185	1.189	1.121	.697
31	.368	1.034	.988	1.250	1.309	1.256	.598
32	.372	.846	.784	.988	1.031	.868	.749
33	.296	.559	.596	.738	.682	.517	.147

Table 27.- Continued.

(c) $C_{T,s} = 0.60$, $q_s = 21.67$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.747	-5.881	-7.225	.824	1.186	1.109	-1.054
2	-3.586	-6.568	-7.819	-.055	.470	.409	-1.196
3	-3.609	-6.737	-7.794	-.305	.052	-.075	-1.531
4	-1.113	-.655	-.369	.042	.026	-.006	-.164
5	-2.878	-4.330	-3.416	-.782	-.717	-.877	-1.335
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	-1.215	-.966	-.846	-1.104
8	*000.000	*000.000	*000.000	-2.401	-2.387	-1.974	-1.980
9	*000.000	*000.000	*000.000	-3.871	-3.887	-2.952	-2.345
10	-1.742	-2.520	-3.099	-2.869	-2.748	-1.940	-1.483
11	-1.450	-1.816	*000.000	-1.992	-1.984	-1.095	-1.013
12	-2.304	-1.375	-1.226	-1.365	-1.399	-.806	-.763
13	-1.871	-1.164	-.976	-1.069	-1.135	-.805	-.695
14	-2.429	-1.098	-.891	-1.019	-1.062	-.745	-.627
15	-1.141	-.714	.410	.625	.451	.372	.056
16	-1.436	-.195	.081	.182	.041	-.052	-.015
17	-2.515	-1.208	-.914	-.776	-1.075	-.647	-.439
18	-3.436	-1.820	-1.440	-1.699	-1.852	-1.572	-1.019
19	-4.594	-2.305	-1.916	-2.474	-2.405	-1.640	-1.386
20	-4.342	-2.152	-1.486	-2.653	-2.556	-2.072	-1.829
21	-4.192	-2.203	-1.568	-2.416	-2.473	-1.673	-1.442
22	-3.607	-1.614	-1.220	-1.724	-1.720	-1.516	-1.344
23	-2.270	-.616	-.579	-.376	-.437	-.672	-.925
24	-1.406	-.443	-.226	-.150	-.185	-.207	-.336
25	-.569	-2.877	-4.382	1.229	1.151	1.018	-.256
26	.933	.610	.184	-.472	*000.000	.163	-.093
27	.848	1.045	.929	1.012	-.002	.141	.390
28	.371	.885	.996	.893	1.043	.612	.366
29	-.031	.696	.814	.765	.661	.454	.365
30	.056	1.104	1.040	1.310	1.284	1.123	.248
31	.337	1.106	.958	1.210	1.342	1.196	.463
32	.346	.887	.733	1.025	1.042	.772	.611
33	.257	.553	.605	.744	.688	.453	.120

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.874	-7.867	-9.381	.665	1.099	.956	-1.613
2	-4.519	-7.777	-8.442	-.245	.240	.027	-1.676
3	-4.231	-7.118	-7.621	-.517	-.199	-.313	-1.557
4	-3.865	-5.900	-5.631	-.944	-.645	-.828	-1.624
5	-3.343	-5.274	-4.624	-1.164	-1.007	-1.207	-1.569
6	*000.000	*000.000	*000.000	.096	.031	-.001	-.222
7	*000.000	*000.000	*000.000	-1.409	-1.063	-.866	-1.197
8	*000.000	*000.000	*000.000	-2.776	-2.475	-1.776	-1.850
9	*000.000	*000.000	*000.000	-4.091	-3.814	-2.701	-2.100
10	-1.920	-2.537	-2.792	-3.190	-2.830	-1.935	-1.445
11	-1.519	-1.846	*000.000	-2.077	-1.982	-1.022	-.815
12	-2.104	-1.384	-1.229	-1.372	-1.284	-.661	-.657
13	-2.268	-1.239	-1.095	-1.157	-1.032	-.654	-.682
14	-2.639	-1.223	-1.089	-1.123	-1.017	-.677	-.618
15	-1.008	-.760	.433	.562	.391	.386	-.039
16	-1.233	-.260	.066	.167	.125	.051	-.047
17	-2.293	-1.408	-.909	-.913	-.947	-.608	-.445
18	-3.060	-1.898	-1.590	-1.791	-1.830	-1.457	-1.104
19	-3.873	-1.997	-1.704	-2.484	-2.253	-1.387	-1.211
20	-3.544	-1.928	-1.721	-2.662	-2.274	-1.848	-1.637
21	-3.165	-1.896	-1.562	-2.266	-2.205	-1.485	-1.170
22	-2.318	-1.324	-1.183	-1.574	-1.502	-1.342	-1.100
23	-1.561	-.800	-.554	-.322	-.510	-.606	-.780
24	-1.019	-.501	-.299	-.133	-.129	-.220	-.354
25	-1.087	-3.704	-5.158	1.342	1.280	1.040	-.646
26	.857	.326	-.080	-.423	*000.000	.142	-.155
27	.917	1.019	.874	1.092	.131	.232	.422
28	.437	.899	1.016	.823	.924	.627	.390
29	0.	.677	.824	.722	.631	.477	.381
30	.140	.993	.985	1.129	1.177	1.047	.220
31	.388	1.096	.940	1.255	1.289	1.131	.334
32	.338	.842	.750	.987	.965	.744	.497
33	.264	.523	.587	.688	.626	.437	.153

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-4.033	-6.421	-7.919	.393	.886	.542	-2.143
2	-5.122	-8.509	-9.469	-.720	-.082	-.419	-2.160
3	-5.049	-8.244	-8.715	-.948	-.427	-.678	-1.799
4	-4.398	-6.462	-6.222	-1.229	-.877	-1.195	-1.674
5	-3.610	-5.347	-4.632	-1.431	-1.235	-1.266	-1.328
6	*000.000	*000.000	*000.000	.081	.078	.037	-.268
7	*000.000	*000.000	*000.000	-1.573	-1.090	-.811	-1.189
8	*000.000	*000.000	*000.000	-2.930	-2.535	-1.709	-1.400
9	*000.000	*000.000	*000.000	-4.243	-3.983	-2.511	-1.701
10	-1.703	-2.419	-2.714	-2.858	-2.396	-1.501	-.934
11	-1.407	-1.921	*000.000	-2.080	-1.797	-.869	-.699
12	-2.238	-1.380	-1.210	-1.321	-1.039	-.553	-.547
13	-2.075	-1.413	-1.108	-1.211	-.894	-.599	-.566
14	-1.837	-1.158	-.921	-1.044	-.766	-.571	-.539
15	-.833	-.771	.462	.555	.376	.381	-.014
16	-1.033	-.272	-.006	.053	.091	.036	-.131
17	-1.735	-1.407	-.919	-.982	-1.014	-.616	-.542
18	-2.500	-1.895	-1.707	-1.870	-1.930	-1.374	-.963
19	-2.429	-1.870	-1.724	-2.336	-1.936	-1.323	-.950
20	-2.407	-1.835	-1.780	-2.748	-2.173	-1.832	-1.413
21	-2.372	-1.620	-1.515	-2.212	-1.931	-1.384	-1.122
22	-1.634	-1.264	-1.152	-1.559	-1.478	-1.261	-.932
23	-1.299	-1.049	-.643	-.532	-.688	-.791	-.953
24	-.871	-.713	-.381	-.202	-.102	-.159	-.323
25	-1.574	-3.625	-4.947	1.225	1.273	.466	-1.171
26	.647	.165	-.204	-.225	*000.000	.086	-.269
27	.762	.938	.821	1.189	.330	.402	.380
28	.409	.917	1.048	.833	.968	.439	.357
29	-.028	.640	.816	.699	.606	.423	.332
30	.193	1.075	.879	1.136	1.181	.971	.020
31	.341	1.093	.778	1.241	1.268	1.120	.379
32	.257	.828	.754	.957	.976	.759	.528
33	.221	.481	.593	.711	.657	.433	.190

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.673	-5.047	-5.569	.310	.852	-.378	-2.395
2	-4.468	-4.887	-4.236	-.785	-.171	-.758	-2.108
3	-4.030	-3.405	-2.579	-.860	-.500	-.731	-1.739
4	-3.243	-2.018	-1.436	-1.324	-.948	-1.117	-1.292
5	-2.612	-1.601	-1.645	-1.450	-1.278	-1.320	-1.228
6	*000.000	*000.000	*000.000	.156	-.002	.044	-.347
7	*000.000	*000.000	*000.000	-1.644	-1.237	-.855	-1.306
8	*000.000	*000.000	*000.000	-3.125	-2.643	-1.750	-1.545
9	*000.000	*000.000	*000.000	-4.376	-3.877	-2.322	-1.239
10	-1.385	-1.558	-1.610	-3.448	-2.936	-1.734	-.988
11	-1.160	-1.360	*000.000	-2.163	-1.887	-.802	-.584
12	-1.265	-1.356	-1.352	-1.384	-1.078	-.500	-.469
13	-1.268	-1.387	-1.327	-1.277	-.952	-.601	-.571
14	-1.222	-1.335	-1.212	-1.253	-.958	-.516	-.485
15	-.530	-.753	.523	.494	.416	.416	.089
16	-.472	-.157	.035	.069	.080	.056	-.069
17	-1.042	-1.135	-.895	-1.016	-.990	-.508	-.522
18	-1.470	-1.534	-1.544	-1.955	-1.748	-1.221	-.834
19	-1.574	-1.529	-1.646	-2.556	-1.901	-1.134	-1.018
20	-1.318	-1.382	-1.289	-2.469	-1.915	-1.285	-.978
21	-1.369	-1.044	-1.050	-2.159	-1.849	-1.457	-1.071
22	-1.013	-.922	-1.021	-1.675	-1.556	-1.314	-1.080
23	-.856	-.719	-.722	-.474	-.711	-.698	-.803
24	-.752	-.624	-.405	-.097	-.087	-.179	-.260
25	-1.547	-3.242	-3.931	1.249	1.312	-.060	-1.368
26	.723	.426	.322	.002	*000.000	.206	-.240
27	.668	1.022	1.009	1.274	.363	.352	.308
28	.266	.905	1.064	.882	.929	.372	.406
29	-.026	.588	.795	.704	.580	.396	.357
30	.351	1.073	.883	1.227	1.159	.942	.217
31	.478	1.195	.831	1.278	1.325	1.146	.494
32	.386	.854	.785	1.080	.988	.720	.433
33	.269	.440	.491	.713	.605	.441	.154

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.516	-4.761	-4.665	.095	.779	-.731	-2.554
2	-3.791	-3.937	-3.559	-1.073	-.282	-1.095	-1.295
3	-3.474	-2.989	-1.732	-1.261	-.794	-1.004	-1.437
4	-3.041	-1.525	-1.108	-1.543	-1.217	-1.361	-1.263
5	-1.961	-1.227	-1.297	-1.540	-1.313	-1.253	-1.228
6	*000.000	*000.000	*000.000	.177	-.003	-.133	-.530
7	*000.000	*000.000	*000.000	-1.700	-1.175	-.687	-1.039
8	*000.000	*000.000	*000.000	-2.986	-2.752	-1.662	-1.190
9	*000.000	*000.000	*000.000	-4.127	-3.820	-2.059	-.918
10	-1.175	-1.120	-1.056	-3.120	-2.731	-1.405	-.735
11	-1.127	-1.132	*000.000	-1.809	-1.730	-.759	-.530
12	-1.190	-1.278	-1.203	-1.429	-1.214	-.582	-.513
13	-.930	-.975	-1.009	-1.144	-.912	-.509	-.458
14	-.985	-.949	-.894	-1.157	-.977	-.460	-.372
15	-.540	-.642	.443	.501	.312	.365	.133
16	-.419	-.068	.140	.137	.025	.065	-.006
17	-1.078	-1.027	-.810	-1.006	-1.011	-.498	-.427
18	-1.126	-1.306	-1.156	-1.740	-1.413	-1.097	-.697
19	-1.259	-1.222	-1.222	-2.490	-1.965	-.925	-.534
20	-.883	-1.021	-1.009	-2.585	-2.018	-1.183	-.819
21	-.897	-.980	-.967	-2.020	-1.931	-.974	-.794
22	-1.008	-.932	-.983	-1.687	-1.395	-.995	-.935
23	-.792	-.741	-.764	-.419	-.547	-.512	-.561
24	-.662	-.647	-.610	-.098	-.039	-.252	-.245
25	-1.827	-2.879	-3.216	1.275	1.447	-.256	-1.380
26	.119	.439	.395	.137	*000.000	.217	-.245
27	.283	.945	1.011	1.238	.607	.335	.336
28	.138	.747	1.000	.798	.870	.320	.314
29	-.061	.452	.691	.648	.528	.375	.324
30	.290	1.137	.954	1.209	1.198	.763	.240
31	.350	1.137	.820	1.335	1.316	1.031	.487
32	.258	.694	.663	.936	.832	.563	.403
33	.195	.286	.488	.676	.587	.423	.196

Table 27. - Continued.

(d) $C_{T,S} = 0.30$, $q_s = 19.31$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.895	.748	.436	.554	1.018	1.002	1.024
2	.128	-.206	-.377	.662	1.221	1.177	1.054
3	-.120	-.502	-.471	.694	1.166	1.064	.976
4	-.446	-.943	-.985	.676	1.067	.978	.824
5	-.822	-1.354	-1.042	.311	.615	.478	.366
6	.000,000	.000,000	.000,000	-.072	-.071	-.201	-.179
7	.000,000	.000,000	.000,000	.093	.434	.421	.349
8	.000,000	.000,000	.000,000	-1.075	-.912	-.879	-.881
9	.000,000	.000,000	.000,000	-2.087	-1.994	-1.919	-1.815
10	-.946	-1.321	-1.638	-1.930	-1.786	-1.625	-1.541
11	-.982	-1.354	.000,000	-1.498	-1.556	-1.385	-1.214
12	-1.519	-1.118	-1.112	-1.087	-1.154	-1.036	-.956
13	-.815	-.988	-.945	-.766	-.774	-.776	-.662
14	-1.003	-.984	-.934	-.706	-.703	-.663	-.552
15	-.145	-.194	.034	.099	.091	.070	-.024
16	-.173	-.094	.039	-.084	-.064	-.140	-.105
17	-.945	-1.102	-.802	-.452	-.429	-.483	-.395
18	-1.803	-1.970	-1.756	-.902	-.876	-1.055	-.849
19	-2.425	-2.364	-2.122	-1.292	-.935	-1.002	-.999
20	-2.876	-2.530	-2.196	-1.308	-.960	-1.255	-1.106
21	-2.564	-1.978	-1.633	-.795	-.508	-.787	-.712
22	-2.495	-1.448	-1.299	-.463	-.271	-.428	-.586
23	-1.560	-.284	-.303	-.280	-.266	-.330	-.239
24	-1.044	-.265	-.195	-.262	-.238	-.310	-.271
25	.993	1.163	.658	-.021	.224	-.003	.061
26	.521	.764	.563	-.035	.000,000	-.243	.220
27	-.063	.212	.009	-.065	-.099	-.218	-.202
28	-.105	.015	.014	-.052	-.127	-.132	-.101
29	.012	.293	.263	.059	.125	.094	.059
30	.659	1.065	.941	.085	.090	.216	.201
31	.728	1.003	.880	.103	.203	.201	.343
32	.434	.754	.732	.355	.254	.320	.400
33	.194	.527	.492	.240	.374	.351	.326

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.357	-.202	-.602	.629	1.172	1.146	1.020
2	-.474	-1.243	-1.399	.541	1.187	1.080	.931
3	-.765	-1.674	-1.805	.346	1.056	.930	.760
4	-1.149	-2.027	-2.022	.200	.651	.508	.299
5	-1.315	-2.227	-1.683	-.087	.233	.074	-.093
6	.000,000	.000,000	.000,000	-.044	.049	-.034	-.181
7	.000,000	.000,000	.000,000	-.490	-.261	-.284	-.316
8	.000,000	.000,000	.000,000	-1.547	-1.412	-1.359	-1.454
9	.000,000	.000,000	.000,000	-2.685	-2.770	-2.588	-2.525
10	-1.156	-1.740	-2.231	-2.345	-2.253	-2.081	-2.028
11	-1.125	-1.602	.000,000	-1.747	-1.869	-1.626	-1.562
12	-1.465	-1.189	-1.119	-1.154	-1.317	-1.192	-1.144
13	-.953	-1.105	-.960	-.934	-1.015	-1.013	-.910
14	-1.205	-1.107	-.943	-.818	-.885	-.894	-.828
15	-.303	-.261	.098	.226	.214	.218	-.149
16	-.469	-.178	-.053	.047	-.117	-.203	-.108
17	-1.270	-1.252	-.819	-.623	-.826	-.667	-.646
18	-1.912	-1.840	-1.376	-1.133	-1.257	-1.387	-1.141
19	-2.729	-2.350	-1.803	-1.555	-1.546	-1.437	-1.417
20	-3.293	-2.536	-1.764	-1.536	-1.513	-1.613	-1.514
21	-3.326	-2.350	-1.602	-1.252	-1.100	-1.471	-1.415
22	-3.324	-1.952	-1.270	-.706	-.577	-.953	-1.104
23	-1.724	-.512	-.369	-.322	-.292	-.278	-.587
24	-1.297	-.164	-.020	-.251	-.241	-.243	-.361
25	1.007	.915	.315	.322	.479	.441	.375
26	.778	.984	.647	-.056	.000,000	-.024	.096
27	.246	.521	.441	-.046	.075	-.022	.005
28	.053	.255	.299	.141	.039	.062	.200
29	.039	.378	.406	.472	.441	.543	.313
30	.548	1.037	.918	.629	.598	.453	.576
31	.664	1.017	.903	.639	.605	.630	.835
32	.457	.767	.615	.669	.724	.728	.892
33	.243	.562	.493	.528	.417	.474	.308

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.329	-1.489	-2.194	.749	1.290	1.220	.996
2	-1.314	-2.635	-3.026	.305	.963	.759	.512
3	-1.563	-2.940	-3.067	.071	.633	.567	.410
4	-1.829	-3.114	-3.114	-.207	.352	.133	-.026
5	-1.745	-2.804	-2.020	-.473	-.183	-.352	-.461
6	.000,000	.000,000	.000,000	-.170	-.017	-.044	-.116
7	.000,000	.000,000	.000,000	-1.048	-.797	-.809	-.924
8	.000,000	.000,000	.000,000	-2.230	-2.068	-2.049	-2.185
9	.000,000	.000,000	.000,000	-3.344	-3.445	-3.340	-3.219
10	-1.372	-2.082	-3.102	-2.813	-2.778	-2.599	-2.489
11	-1.229	-1.768	.000,000	-1.974	-2.171	-1.882	-1.828
12	-1.572	-1.283	-1.191	-1.332	-1.495	-1.322	-1.288
13	-1.220	-1.256	-1.040	-1.084	-1.232	-1.171	-1.029
14	-1.584	-1.179	-.909	-.943	-1.092	-1.014	-.936
15	-.589	-.370	.177	.339	.372	.339	-.047
16	-.857	-.220	-.038	.010	-.088	-.191	-.104
17	-1.668	-1.323	-.874	-.720	-1.099	-.937	-.623
18	-2.497	-1.970	-1.391	-1.354	-1.524	-1.546	-1.248
19	-3.328	-2.279	-1.537	-1.905	-1.873	-1.630	-1.414
20	-3.760	-2.418	-1.403	-1.819	-1.934	-1.723	-1.563
21	-3.984	-2.366	-1.353	-1.561	-1.606	-1.475	-1.437
22	-3.418	-1.675	-.889	-.979	-.889	-.935	-1.090
23	-1.874	-.570	-.279	-.288	-.216	-.264	-.557
24	-1.591	-.182	-.108	-.201	-.283	-.238	-.385
25	.864	.412	-.602	.672	.814	.836	.799
26	.940	.995	.539	-.231	.000,000	.088	.150
27	.532	.779	.607	.117	.117	.054	.180
28	.210	.455	.549	.594	.267	.334	.537
29	.036	.396	.451	.520	.607	.600	.548
30	.410	1.004	.910	1.036	.989	1.047	.321
31	.478	.926	.859	.972	.923	.983	1.034
32	.440	.745	.593	.870	.872	.859	.857
33	.223	.559	.554	.634	.657	.620	.341

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.412	-3.302	-4.358	.672	1.260	1.110	.483
2	-2.315	-4.144	-4.736	-.213	.564	.290	-.236
3	-2.529	-4.392	-4.701	-.405	.197	-.048	-.517
4	-2.408	-4.002	-4.074	-.771	-.244	-.494	-.819
5	-2.375	-3.663	-2.287	-1.028	-.790	-.955	-1.205
6	.000,000	.000,000	.000,000	-.157	-.030	-.042	-.081
7	.000,000	.000,000	.000,000	-1.834	-1.441	-1.550	-1.846
8	.000,000	.000,000	.000,000	-2.943	-2.774	-2.723	-2.976
9	.000,000	.000,000	.000,000	-4.295	-4.349	-4.092	-4.014
10	-1.607	-2.322	-3.142	-3.185	-3.180	-3.025	-2.949
11	-1.335	-1.946	.000,000	-2.128	-2.432	-2.124	-2.086
12	-1.876	-1.362	-1.211	-1.433	-1.691	-1.485	-1.460
13	-1.601	-1.343	-1.027	-1.185	-1.336	-1.178	-1.233
14	-2.257	-1.146	-.829	-1.087	-1.235	-1.088	-1.056
15	-.740	-.498	.286	.497	.417	.384	-.243
16	-1.204	-.239	-.013	.046	-.075	-.167	-.248
17	-2.079	-1.242	-.795	-.848	-1.119	-.905	-.728
18	-3.245	-2.062	-1.433	-1.619	-1.905	-1.875	-1.496
19	-4.133	-2.466	-1.603	-2.075	-2.150	-1.838	-1.645
20	-4.268	-2.430	-1.377	-2.025	-2.047	-1.836	-1.733
21	-4.077	-2.270	-1.139	-1.634	-1.788	-1.667	-1.594
22	-3.498	-1.706	-.863	-1.171	-1.163	-1.146	-1.216
23	-2.161	-.567	-.349	-.377	-.261	-.269	-.671
24	-1.813	-.213	-.226	-.150	-.233	-.099	-.388
25	.267	-.613	-1.800	.951	1.230	1.236	.836
26	.871	.904	.533	-.264	.000,000	-.022	.110
27	.722	1.027	.889	.771	.218	.250	.460
28	.225	.588	.723	.743	1.005	.868	.558
29	-.016	.518	.633	.689	.719	.707	.500
30	.171	.991	.981	1.232	1.273	1.230	.248
31	.184	.556	.497	.721	.709	.643	.107
32	.406	.848	.775	1.055	1.070	.937	.893
33	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000

Table 27.– Concluded.

(d) $C_{T,S} = 0.30$, $q_s = 19.31$

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.910	-3.561	-4.119	.361	.977	.763	-.235
2	-2.688	-4.107	-4.119	-.612	.189	-.298	-1.078
3	-2.844	-4.249	-3.921	-.871	-.386	-.702	-1.390
4	-2.704	-3.724	-3.031	-1.199	-.818	-1.163	-1.603
5	-2.285	-2.806	-1.238	-1.290	-1.109	-1.414	-1.569
6	*000.000	*000.000	*000.000	-.094	.025	-.100	-.191
7	*000.000	*000.000	*000.000	-1.785	-1.505	-1.692	-1.923
8	*000.000	*000.000	*000.000	-3.357	-3.352	-3.469	-3.581
9	*000.000	*000.000	*000.000	-4.204	-4.662	-4.597	-4.412
10	-1.397	-1.277	-1.070	-2.981	-3.374	-3.302	-3.141
11	-1.368	-1.855	*000.000	-2.414	-2.763	-2.504	-2.401
12	-1.292	-1.363	-1.383	-1.499	-1.754	-1.465	-1.423
13	-1.120	-1.142	-1.141	-1.224	-1.384	-1.261	-1.194
14	-1.499	-1.234	-1.119	-1.159	-1.388	-1.256	-1.168
15	-.649	-.556	.409	.557	.416	.366	-.096
16	-.609	-.259	-.164	.043	-.154	-.209	-.260
17	-1.404	-1.479	-1.187	-.978	-1.364	-1.089	-.753
18	-1.692	-1.376	-1.416	-1.476	-1.925	-1.969	-1.473
19	-2.133	-1.855	-1.721	-2.374	-2.701	-2.198	-1.797
20	-1.718	-1.378	-1.494	-1.933	-2.353	-2.075	-1.881
21	-1.558	-1.161	-1.067	-1.266	-1.933	-1.917	-1.722
22	-1.441	-.966	-.732	-1.300	-1.326	-1.124	-1.171
23	-1.142	-.608	-.628	-.715	-.627	-.443	-.870
24	-1.196	-.672	-.545	-.375	-.170	-.227	-.313
25	-.005	-1.111	-1.866	1.050	1.243	1.185	.565
26	.874	.819	.586	.023	*000.000	-.385	.162
27	.713	.908	.844	.950	.321	.566	.621
28	.341	.721	.847	.952	1.054	.886	.608
29	.187	.605	.697	.741	.757	.693	.591
30	.305	.990	1.011	1.259	1.245	1.171	.266
31	.629	1.146	1.052	1.519	1.506	1.343	1.126
32	.420	.802	.762	1.049	1.055	.935	.966
33	.305	.494	.526	.751	.732	.578	.175

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.265	-3.755	-4.252	.290	.700	.534	-.926
2	-3.203	-4.528	-4.592	-1.083	-.419	-.643	-1.744
3	-3.528	-5.082	-4.942	-1.422	-1.035	-1.094	-2.096
4	-3.229	-3.918	-3.201	-1.644	-1.335	-1.593	-2.104
5	-2.292	-2.359	-1.222	-1.518	-1.527	-1.727	-2.026
6	*000.000	*000.000	*000.000	.095	-.026	-.094	-.352
7	*000.000	*000.000	*000.000	-1.718	-1.829	-1.867	-2.216
8	*000.000	*000.000	*000.000	-3.421	-3.775	-3.681	-3.785
9	*000.000	*000.000	*000.000	-4.006	-4.808	-4.620	-4.429
10	-1.399	-1.248	-1.154	-3.271	-3.884	-3.631	-3.431
11	-.982	-1.253	*000.000	-1.998	-2.682	-2.290	-2.144
12	-1.051	-1.052	-1.079	-1.355	-1.695	-1.475	-1.401
13	-1.239	-1.154	-1.123	-1.168	-1.343	-1.383	-1.308
14	-1.279	-1.423	-1.195	-1.241	-1.526	-1.387	-1.228
15	-.393	-.550	.431	.618	.388	.398	-.117
16	-.549	-.246	-.078	.132	-.109	-.137	-.181
17	-1.066	-1.464	-1.249	-1.171	-1.527	-1.161	-.845
18	-1.422	-1.697	-1.430	-1.513	-1.996	-1.915	-1.360
19	-1.666	-1.552	-1.722	-1.827	-2.405	-1.933	-1.951
20	-1.435	-1.479	-1.568	-2.114	-2.386	-2.122	-1.840
21	-1.357	-1.206	-1.271	-1.645	-2.187	-2.006	-1.735
22	-1.308	-.950	-.760	-1.046	-1.267	-1.365	-1.224
23	-1.236	-.834	-.729	-.683	-.539	-.315	-.708
24	-.969	-.675	-.576	-.506	-.139	-.142	-.456
25	-.608	-1.817	-2.638	1.430	1.495	1.448	.383
26	.718	.518	.326	.185	*000.000	-.313	.140
27	.797	.976	1.006	1.387	1.004	.983	.735
28	.444	.761	.904	.964	.984	.855	.614
29	.171	.636	.785	.791	.772	.697	.607
30	.382	1.062	1.065	1.442	1.314	1.297	.120
31	.301	.470	.566	.772	.787	.669	.288
32	.429	.838	.886	1.154	1.088	.992	.958
33	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.232	-4.820	-4.876	.057	.367	.266	-1.743
2	-3.918	-4.790	-4.135	-1.407	-.833	-1.070	-2.451
3	-3.930	-5.009	-3.762	-1.780	-1.428	-1.466	-2.484
4	-3.297	-2.937	-2.158	-1.833	-1.577	-1.866	-2.311
5	-2.688	-2.095	-1.479	-2.040	-2.034	-2.164	-2.202
6	*000.000	*000.000	*000.000	.130	.041	.014	-.339
7	*000.000	*000.000	*000.000	-2.023	-1.882	-1.890	-2.254
8	*000.000	*000.000	*000.000	-3.338	-3.546	-3.243	-3.341
9	*000.000	*000.000	*000.000	-4.512	-5.033	-4.416	-4.028
10	-1.261	-1.265	-1.259	-3.327	-3.637	-2.993	-2.655
11	-.833	-1.099	*000.000	-1.662	-2.327	-1.811	-1.623
12	-1.218	-1.419	-1.281	-1.286	-1.503	-1.142	-1.007
13	-1.025	-1.417	-1.290	-1.224	-1.302	-1.019	-.940
14	-.986	-1.327	-1.094	-1.176	-1.180	-.862	-.700
15	-.370	-.631	.485	.535	.381	.304	-.017
16	-.472	-.279	-.022	.063	-.122	-.223	-.210
17	-1.087	-1.483	-1.044	-.929	-1.272	-1.024	-.856
18	-1.453	-1.867	-1.443	-1.740	-2.153	-1.916	-1.286
19	-1.305	-1.739	-1.608	-2.104	-2.622	-1.980	-1.711
20	-1.256	-1.766	-1.519	-1.885	-2.663	-2.606	-2.159
21	-1.307	-1.400	-.945	-1.929	-2.306	-2.203	-1.759
22	-.966	-1.052	-.856	-1.265	-1.403	-1.687	-1.509
23	-.928	-.831	-.698	-.675	-.574	-.592	-1.021
24	-.941	-.688	-.613	-.716	-.240	-.253	-.487
25	-1.312	-2.776	-3.181	1.314	1.461	1.334	-.030
26	.772	.435	.381	.249	*000.000	-.119	.170
27	.829	.889	.982	1.396	1.348	1.062	.721
28	.489	.805	1.002	1.005	.987	.804	.628
29	.203	.642	.821	.809	.756	.670	.610
30	.466	1.144	1.193	1.473	1.398	1.360	.235
31	.465	1.007	.848	1.324	1.333	1.238	.863
32	.480	.839	.841	1.063	1.056	.882	.840
33	.353	.480	.602	.722	.721	.579	.283

Table 28.- Pressure coefficients for wing with propeller rotation up at tip, inboard slat and fences, $\delta_f = 60°$.

(a) $C_{T,S} = 0.90$, $q_s = 20.22$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.882	.714	.449	-.947	.178	.487	.338
2	.212	.036	-.096	-.196	.833	1.106	.399
3	.057	-.322	-.362	.177	1.015	1.123	.357
4	-.323	-.655	-.706	.571	1.189	1.195	.362
5	-.516	-.871	-.907	.868	1.155	.943	.144
6	*000.000	*000.000	*000.000	-.193	-.106	-.010	.102
7	*000.000	*000.000	*000.000	.881	.866	.787	.415
8	*000.000	*000.000	*000.000	.603	.346	.171	-.066
9	*000.000	*000.000	*000.000	-.149	-.450	-.583	-.533
10	-.420	-.803	-1.012	-.378	-.530	-.482	-.355
11	-.376	-.828	*000.000	-.581	-.677	-.413	-.305
12	-.981	-.593	-.681	-.479	-.515	-.279	-.268
13	-.390	-.643	-.683	-.422	-.413	-.198	-.240
14	-.468	-.675	-.663	-.519	-.413	-.178	-.226
15	-.145	-.350	-.108	-.120	-.020	.037	-.060
16	-1.241	-1.734	-1.487	-.680	-.360	-.237	-.156
17	-1.736	-2.576	-2.178	-1.239	-.697	-.531	-.374
18	-2.003	-2.776	-2.453	-1.200	-.625	-.560	-.503
19	-1.930	-2.571	-2.158	-1.293	-.617	-.621	-.356
20	-1.842	-2.031	-1.463	-.693	-.172	-.110	-.132
21	-1.728	-1.422	-.648	-.343	-.142	-.081	-.128
22	-1.490	-.645	-.288	-.303	-.174	-.079	-.049
23	-.845	-.335	-.178	-.203	-.151	-.091	-.081
24	-.392	-.191	-.204	-.172	-.140	-.050	-.116
25	1.060	1.073	.894	-.972	-.455	-.188	.131
26	.671	.973	.910	-.761	*000.000	-.029	.357
27	.070	.389	.531	-.247	-.174	.051	.075
28	.062	.282	.345	-.253	-.065	.069	.086
29	.211	.511	.441	.088	-.103	.051	.177
30	.366	.872	.606	-.090	.059	.141	-.060
31	.896	1.166	.991	-.067	-.073	.132	.069
32	.789	1.002	.901	-.151	.059	.114	.021
33	.596	.779	.781	-.040	.081	.008	-.014

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.766	.389	.054	-.748	.277	.659	.289
2	.014	-.342	-.563	.016	.929	1.157	.222
3	-.186	-.600	-.735	.312	1.031	1.148	.225
4	-.496	-.978	-1.003	.719	1.155	1.175	.196
5	-.644	-1.097	-1.080	.867	1.019	.790	.127
6	*000.000	*000.000	*000.000	-.200	-.131	-.060	-.050
7	*000.000	*000.000	*000.000	.708	.783	.726	.284
8	*000.000	*000.000	*000.000	.381	.118	.016	-.179
9	*000.000	*000.000	*000.000	-.347	-.727	-.768	-.630
10	-.473	-.951	-1.135	-.448	-.702	-.633	-.499
11	-.411	-.952	*000.000	-.660	-.822	-.528	-.353
12	-1.071	-.674	-.707	-.520	-.623	-.341	-.329
13	-.404	-.644	-.665	-.446	-.475	-.325	-.267
14	-.558	-.702	-.694	-.482	-.451	-.279	-.226
15	-.222	-.427	-.047	-.005	-.037	.037	-.077
16	-1.286	-1.707	-1.528	-.779	-.638	-.306	-.254
17	-1.903	-2.568	-2.245	-1.348	-.975	-.571	-.487
18	-2.010	-2.542	-2.212	-1.467	-.743	-.529	-.402
19	-2.218	-2.520	-2.201	-1.238	-.551	-.575	-.352
20	-1.990	-1.957	-1.385	-.889	-.244	-.057	-.168
21	-1.744	-1.285	-.656	-.345	-.213	-.124	-.148
22	-1.466	-.483	-.243	-.258	-.198	-.196	-.081
23	-.817	-.324	-.140	-.301	-.200	-.166	-.110
24	-.389	-.303	-.145	-.187	-.185	-.134	-.175
25	1.108	1.034	.787	-.814	-.393	-.242	.014
26	.718	.889	.851	-.741	*000.000	-.199	.274
27	.168	.563	.664	-.261	-.114	-.035	.006
28	.064	.334	.511	-.202	-.097	.012	.099
29	.184	.491	.483	.063	-.151	.007	.078
30	.310	.764	.646	.115	.019	.186	.052
31	.788	1.038	.987	-.008	.002	.178	-.025
32	.806	.967	.954	.378	.051	.094	-.010
33	.569	.736	.785	.481	.090	.077	.020

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.605	.155	-.364	-.537	.472	.772	.197
2	-.251	-.763	-1.096	.279	1.028	1.124	.148
3	-.470	-1.063	-1.413	.498	1.169	1.146	.250
4	-.695	-1.272	-1.490	.753	1.134	1.025	.133
5	-.818	-1.326	-1.339	.843	.944	.690	-.004
6	*000.000	*000.000	*000.000	-.146	-.052	-.048	-.004
7	*000.000	*000.000	*000.000	.734	.757	.599	.281
8	*000.000	*000.000	*000.000	.326	.046	-.125	-.289
9	*000.000	*000.000	*000.000	-.463	-.844	-.927	-.724
10	-.538	-1.050	-1.287	-.644	-.809	-.748	-.555
11	-.504	-.970	*000.000	-.714	-.825	-.644	-.463
12	-1.066	-.650	-.761	-.559	-.622	-.394	-.318
13	-.527	-.651	-.716	-.485	-.474	-.344	-.292
14	-.709	-.736	-.763	-.518	-.493	-.329	-.252
15	-.369	-.468	-.081	.107	-.047	.042	-.023
16	-1.505	-1.669	-1.486	-.725	-.549	-.484	-.331
17	-2.083	-2.497	-2.201	-1.218	-.904	-.716	-.534
18	-2.455	-2.681	-2.462	-1.513	-.890	-.805	-.556
19	-2.506	-2.636	-2.275	-1.332	-.623	-.973	-.350
20	-2.354	-1.910	-1.577	-.469	-.235	-.247	-.272
21	-1.957	-1.107	-.737	-.320	-.187	-.172	-.153
22	-1.635	-.448	-.366	-.257	-.175	-.122	-.076
23	-.731	-.326	-.259	-.311	-.187	-.215	-.126
24	-.520	-.291	-.212	-.187	-.134	-.124	-.205
25	1.107	.990	.430	-.730	-.165	-.112	.058
26	.813	1.008	.864	-.642	*000.000	-.256	.199
27	.240	.664	.729	-.230	-.049	.060	-.033
28	.085	.461	.551	-.217	-.038	.026	.047
29	.116	.563	.527	.225	-.082	.039	.107
30	.249	.808	.613	.221	.096	.065	.020
31	.698	1.021	.939	.221	.043	.128	-.060
32	.730	.976	.890	.558	.093	.135	.053
33	.542	.748	.708	.518	.323	.136	.117

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.398	-.219	-1.109	-.143	.677	.864	.011
2	-.448	-1.151	-1.606	.426	1.120	1.181	.162
3	-.655	-1.418	-1.746	.595	1.181	1.197	.013
4	-.917	-1.557	-1.800	.852	1.119	1.127	.043
5	-.949	-1.608	-1.628	.889	.890	.747	-.008
6	*000.000	*000.000	*000.000	-.171	-.061	-.025	-.038
7	*000.000	*000.000	*000.000	.698	.712	.698	.289
8	*000.000	*000.000	*000.000	.256	-.061	-.100	-.300
9	*000.000	*000.000	*000.000	-.540	-.962	-1.047	-.742
10	-.661	-1.178	-1.376	-.687	-.884	-.779	-.596
11	-.553	-1.060	*000.000	-.765	-.927	-.587	-.448
12	-1.112	-.735	-.752	-.566	-.643	-.410	-.352
13	-.638	-.763	-.816	-.504	-.567	-.332	-.327
14	-.827	-.761	-.777	-.477	-.499	-.349	-.247
15	-.501	-.564	-.582	-.106	-.070	.041	-.015
16	-1.790	-1.820	-1.781	-.876	-.860	-.668	-.436
17	-2.524	-2.699	-2.356	-1.289	-1.147	-.799	-.601
18	-2.899	-2.756	-2.661	-1.458	-1.203	-1.015	-.734
19	-2.986	-2.708	-2.550	-1.338	-.898	-.926	-.700
20	-2.521	-1.953	-1.784	-.603	-.298	-.297	-.389
21	-2.250	-1.198	-1.192	-.345	-.221	-.180	-.188
22	-1.686	-.538	-.419	-.238	-.162	-.164	-.159
23	-.782	-.374	-.302	-.235	-.194	-.233	-.269
24	-.647	-.394	-.307	-.179	-.181	-.145	-.142
25	1.087	.827	.005	-.601	-.119	.055	.024
26	.944	1.079	.832	-.568	*000.000	-.156	.190
27	.347	.765	.835	-.207	-.036	.100	0.
28	.130	.490	.649	-.171	-.009	.047	.051
29	.139	.547	.566	.240	.020	.167	.075
30	.203	.775	.675	.364	.041	.266	.142
31	.614	.995	.929	.197	.177	.219	.131
32	.670	.936	.822	.489	.211	.183	.126
33	.482	.686	.729	.791	.337	.259	.335

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.200	-.766	-1.831	.106	.766	.948	.065
2	-.721	-1.707	-2.550	.535	1.153	1.194	.085
3	-.873	-1.905	-2.494	.693	1.183	1.173	-.005
4	-.084	-.156	-.148	-.180	-.085	.005	-.012
5	-1.054	-1.889	-1.898	.918	.812	.540	-.108
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	.706	.680	.681	.250
8	*000.000	*000.000	*000.000	.170	-.200	-.186	-.348
9	*000.000	*000.000	*000.000	-.694	-1.098	-1.079	-.708
10	-.733	-1.305	-1.525	-.797	-1.027	-.908	-.619
11	-.621	-1.135	*000.000	-.812	-.988	-.682	-.467
12	-1.183	-.795	-.832	-.643	-.699	-.424	-.371
13	-.793	-.847	-.814	-.557	-.537	-.331	-.342
14	-1.043	-.908	-.914	-.555	-.624	-.393	-.287
15	-.690	-.667	-.159	.040	-.071	.047	-.024
16	-2.087	-2.111	-1.874	-1.106	-1.127	-.760	-.520
17	-2.801	-2.773	-2.463	-1.422	-1.472	-.954	-.665
18	-3.164	-2.938	-2.888	-1.536	-1.373	-1.173	-.930
19	-3.410	-3.330	-3.031	-1.407	-1.300	-1.377	-.782
20	-2.690	-2.085	-2.049	-.639	-.609	-.671	-.650
21	-2.416	-1.829	-1.577	-.368	-.303	-.242	-.333
22	-1.381	-.605	-.587	-.232	-.174	-.247	-.256
23	-.925	-.513	-.475	-.305	-.196	-.256	-.168
24	-.784	-.506	-.218	-.249	-.167	-.221	-.165
25	1.069	.655	-.382	-.544	.091	.011	-.019
26	.960	1.002	.734	-.512	*000.000	-.062	.155
27	.409	.798	.824	-.184	.044	.012	-.002
28	.187	.516	.629	-.114	.010	-.026	-.049
29	.125	.551	.600	.421	.032	.064	.081
30	.101	.760	.690	.370	.229	.394	.129
31	.558	.998	.926	.488	.253	.323	-.026
32	.614	.910	.863	.962	.533	.329	.029
33	.464	.699	.783	.953	.648	.175	.302

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.080	-1.140	-2.421	.192	.914	1.092	-.153
2	-1.057	-2.105	-2.942	.607	1.162	1.269	-.118
3	-1.213	-2.346	-3.056	.871	1.140	1.127	-.088
4	-1.461	-2.522	-3.044	.945	1.085	.954	-.274
5	-1.345	-2.198	-2.205	.866	.684	.478	-.199
6	*000.000	*000.000	*000.000	-.170	-.077	-.021	-.102
7	*000.000	*000.000	*000.000	.706	.552	.637	.118
8	*000.000	*000.000	*000.000	.014	-.366	-.299	-.402
9	*000.000	*000.000	*000.000	-.811	-1.322	-1.153	-.736
10	-.825	-1.428	-1.651	-.897	-1.123	-.884	-.572
11	-.776	-1.227	*000.000	-.932	-1.094	-.633	-.515
12	-1.239	-.925	-.906	-.692	-.808	-.454	-.419
13	-.996	-.935	-.890	-.638	-.662	-.400	-.341
14	-.913	-.746	-.273	-.407	-.077	-.017	-.103
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	-2.447	-2.290	-1.988	-1.185	-1.303	-.950	-.595
17	-3.429	-3.455	-2.731	-1.741	-1.787	-1.442	-1.003
18	-3.743	-3.406	-3.146	-1.980	-1.943	-1.770	-1.123
19	-3.998	-3.914	-2.860	-1.881	-1.851	-1.889	-1.010
20	-3.435	-3.273	-2.214	-.893	-.842	-1.053	-.915
21	-2.540	-2.272	-1.545	-.426	-.462	-.389	-.562
22	-1.704	-1.501	-.772	-.320	-.263	-.257	-.423
23	-1.017	-.649	-.321	-.228	-.202	-.234	-.345
24	-1.000	-.425	-.064	-.219	-.148	-.163	-.183
25	.938	.385	-.874	-.260	.081	.097	-.153
26	.946	.969	.644	-.353	*000.000	-.068	.085
27	.442	.873	.909	-.111	-.038	.030	-.016
28	.181	.554	.696	-.005	-.078	-.041	.026
29	.016	.587	.615	.459	.096	.124	.059
30	.009	.807	.730	.605	.419	.449	.208
31	.457	1.030	.997	.712	.522	.418	.104
32	.493	.885	.890	1.079	.624	.537	.220
33	.360	.706	.833	.938	.893	.290	.233

Table 28.- Continued.

(a) $C_{T,S} = 0.90$, $q_s = 20.22$

$\alpha = 35°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-.390	-1.629	-3.160	.409	1.022	1.049	-.240
2	-1.454	-2.793	-3.952	.777	1.296	1.248	-.373
3	-1.526	-2.902	-3.722	.863	1.210	1.086	-.371
4	-1.651	-2.685	-3.138	.883	.990	.834	-.563
5	-1.535	-2.412	-2.353	.751	.634	.463	-.463
6	.000,000	.000,000	.000,000	-.216	-.042	-.040	-.050
7	.000,000	.000,000	.000,000	.556	.586	.635	.044
8	.000,000	.000,000	.000,000	-.097	-.460	-.435	-.493
9	.000,000	.000,000	.000,000	-1.071	-1.566	-1.261	-.829
10	-.953	-1.594	-1.756	-1.106	-1.269	-.897	-.580
11	-.857	-1.303	.000,000	-1.026	-1.145	-.672	-.577
12	-1.237	-.945	-.874	-.770	-.827	-.481	-.523
13	-1.147	-1.062	-.915	-.720	-.703	-.434	-.379
14	-1.378	-1.123	-1.027	-.703	-.734	-.479	-.682
15	-1.032	-.763	-.269	.099	-.077	.016	-.061
16	-2.605	-2.530	-2.018	-1.338	-1.373	-1.182	-.679
17	-3.506	-3.761	-2.746	-1.920	-2.064	-1.494	-1.010
18	-3.824	-4.129	-2.991	-2.181	-2.181	-1.944	-1.187
19	-3.811	-4.167	-2.814	-2.156	-2.256	-2.037	-1.030
20	-3.413	-3.404	-2.064	-1.206	-1.029	-1.306	-1.018
21	-2.724	-2.654	-1.527	-.543	-.556	-.728	-.850
22	-1.985	-1.975	-1.087	-.372	-.267	-.486	-.741
23	-1.086	-.769	-.242	-.271	-.246	-.314	-.410
24	-1.170	-.196	-.160	-.277	-.221	-.297	-.282
25	.822	.106	-1.355	-.218	.231	.044	-.375
26	.883	.952	.613	-.461	.000,000	-.121	0.
27	.458	.866	.805	-.171	-.040	-.050	-.136
28	.188	.604	.722	.075	-.076	-.118	-.164
29	-.009	.545	.567	.605	.241	.127	.060
30	-.095	.808	.753	.626	.476	.437	.047
31	.397	.972	.880	.830	.463	.423	-.060
32	.446	.908	.879	.998	.881	.467	.071
33	.387	.680	.779	.888	.968	.612	.078

$\alpha = 40°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-.783	-2.063	-3.754	.540	1.078	1.056	-.532
2	-1.875	-3.067	-4.331	.841	1.218	1.160	-.413
3	-2.148	-3.360	-4.309	.885	1.162	1.145	-.451
4	-2.084	-3.039	-3.734	.820	.945	.836	-.417
5	-1.788	-2.702	-2.711	.688	.620	.414	-.481
6	.000,000	.000,000	.000,000	-.246	-.087	-.114	-.148
7	.000,000	.000,000	.000,000	.483	.491	.628	.095
8	.000,000	.000,000	.000,000	-.185	-.524	-.348	-.396
9	.000,000	.000,000	.000,000	-1.213	-1.692	-1.208	-.644
10	-1.141	-1.663	-1.753	-1.178	-1.324	-.905	-.460
11	-1.008	-1.432	.000,000	-1.153	-1.249	-.724	-.503
12	-1.318	-1.071	-.945	-.842	-.916	-.533	-.393
13	-1.396	-1.139	-.988	-.730	-.731	-.450	-.384
14	-1.648	-1.224	-.978	-.741	-.811	-.488	-.354
15	-1.228	-.822	-.276	-.044	-.105	.018	-.118
16	-3.004	-2.719	-1.984	-1.571	-1.745	-1.457	-.632
17	-3.921	-3.900	-2.413	-2.083	-2.172	-1.557	-.905
18	-4.283	-4.507	-2.825	-2.655	-2.505	-1.824	-1.061
19	-4.156	-4.171	-2.502	-2.284	-2.222	-1.849	-1.043
20	-3.491	-3.652	-1.947	-1.694	-1.388	-1.497	-.828
21	-.082	.567	.601	.665	.363	.211	.084
22	-1.968	-1.877	-.962	-.458	-.364	-.608	-.615
23	-1.396	-.908	-.361	-.335	-.273	-.352	-.461
24	-1.261	-.041	-.189	-.253	-.306	-.259	-.258
25	.667	-.154	-1.591	-.078	.178	.027	-.227
26	1.048	.952	.610	-.420	.000,000	-.272	-.046
27	.534	.934	.972	-.145	-.114	-.083	-.019
28	.153	.631	.748	.163	-.138	-.086	-.034
29	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
30	-.141	.738	.723	.720	.657	.641	.074
31	.224	.931	.942	.830	.735	.625	.006
32	.392	.875	.942	1.054	1.025	.653	.183
33	.293	.675	.799	.869	1.005	.495	.139

$\alpha = 45°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-1.231	-2.570	-4.325	.881	1.119	1.048	-.402
2	-2.193	-3.295	-4.561	.999	1.156	1.132	-.628
3	-2.514	-3.539	-4.389	.925	1.095	1.054	-.486
4	-2.464	-3.339	-3.997	.851	.879	.755	-.567
5	-2.056	-2.820	-2.722	.584	.443	.347	-.497
6	.000,000	.000,000	.000,000	-.249	-.139	-.071	.006
7	.000,000	.000,000	.000,000	.401	.421	.617	-.038
8	.000,000	.000,000	.000,000	-.476	-.682	-.316	-.340
9	.000,000	.000,000	.000,000	-1.530	-1.794	-1.103	-.567
10	-1.297	-1.825	-1.790	-1.423	-1.437	-.942	-.568
11	-1.124	-1.486	.000,000	-1.222	-1.321	-.655	-.407
12	-1.195	-1.062	-.870	-.830	-.921	-.413	-.352
13	-1.457	-1.069	-.791	-.716	-.793	-.408	-.273
14	-1.718	-1.209	-.896	-.706	-.848	-.490	-.309
15	-1.200	-.846	-.276	.020	-.111	.101	.005
16	-2.697	-2.494	-1.638	-1.457	-1.923	-1.153	-.543
17	-4.001	-3.773	-2.135	-2.196	-2.492	-1.498	-.876
18	-3.996	-4.014	-2.204	-2.425	-2.967	-2.237	-1.087
19	-4.024	-3.965	-2.162	-2.348	-2.517	-1.909	-1.038
20	-3.180	-3.138	-1.610	-1.671	-2.011	-1.616	-.979
21	-2.622	-2.504	-1.268	-.779	-1.114	-1.159	-.746
22	-1.951	-1.428	-.833	-.334	-.443	-.849	-.688
23	-1.274	-.542	-.382	-.280	-.398	-.305	-.496
24	-1.135	-.108	-.269	-.313	-.384	-.106	-.125
25	.359	-.391	-1.815	.245	.245	.056	-.371
26	.911	.840	.520	-.365	.000,000	-.172	.036
27	.591	.932	.953	-.161	-.144	-.082	-.038
28	.152	.600	.761	.219	-.197	-.019	.088
29	-.150	.496	.625	.668	.466	.159	.043
30	-.151	.744	.725	.813	.675	.592	.137
31	.245	.906	.948	1.039	.812	.735	.129
32	.360	.861	.827	1.085	1.081	.736	-.038
33	.268	.612	.690	.908	.941	.632	-.095

$\alpha = 50°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-1.620	-2.726	-4.396	.951	1.158	.943	-.476
2	-2.629	-3.517	-4.779	1.079	1.161	.940	-.595
3	-3.005	-3.973	-4.911	1.014	1.141	.984	-.691
4	-2.818	-3.568	-4.151	.724	.790	.566	-.600
5	-2.296	-2.952	-2.772	.512	.413	.176	-.566
6	.000,000	.000,000	.000,000	-.193	-.102	-.246	-.171
7	.000,000	.000,000	.000,000	.329	.442	.527	-.161
8	.000,000	.000,000	.000,000	-.651	-.761	-.351	-.321
9	.000,000	.000,000	.000,000	-1.690	-1.879	-1.050	-.601
10	-1.458	-1.903	-1.822	-1.565	-1.530	-.946	-.383
11	-1.185	-1.488	.000,000	-1.269	-1.297	-.659	-.392
12	-1.149	-1.058	-.845	-.883	-.867	-.514	-.377
13	-1.509	-1.095	-.850	-.779	-.712	-.409	-.325
14	-1.846	-1.234	-.890	-.820	-.817	-.481	-.337
15	-1.294	-.856	-.233	-.034	-.160	.012	-.196
16	-2.543	-2.502	-1.682	-1.744	-2.012	-1.108	-.549
17	-3.676	-3.752	-2.223	-2.464	-2.809	-1.521	-.775
18	-4.197	-4.072	-2.288	-2.985	-2.782	-1.785	-.993
19	-3.933	-3.775	-2.141	-2.729	-3.127	-1.570	-.980
20	-3.074	-2.978	-1.692	-1.924	-2.358	-1.521	-.924
21	-2.417	-2.221	-1.252	-.868	-1.540	-1.053	-.790
22	-1.800	-1.435	-.921	-.507	-1.061	-.843	-.624
23	-1.436	-.434	-.404	-.327	-.627	-.459	-.412
24	-1.092	-.193	-.346	-.383	-.228	-.111	-.194
25	.217	-.551	-2.066	.255	.223	-.079	-.348
26	.967	.824	.428	-.307	.000,000	-.228	-.022
27	.628	.915	.877	-.158	-.106	-.097	-.112
28	.182	.643	.743	.326	-.120	-.131	-.001
29	-.154	.523	.609	.658	.449	.115	.010
30	-.336	.713	.668	.750	.634	.458	-.029
31	.170	.895	.940	1.040	.810	.656	-.016
32	.322	.868	.738	1.114	1.086	.498	-.014
33	.263	.624	.607	.844	.980	.565	-.255

$\alpha = 55°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-2.051	-2.782	-4.223	.954	1.084	.831	-.290
2	-3.327	-3.958	-5.038	1.064	1.176	1.003	-.552
3	-3.376	-4.061	-4.889	.956	1.046	.921	-.545
4	-3.104	-3.667	-4.149	.718	.710	.533	-.568
5	-2.696	-3.230	-2.820	.428	.400	.321	-.412
6	.000,000	.000,000	.000,000	-.215	-.164	-.069	-.078
7	.000,000	.000,000	.000,000	.270	.413	.603	-.232
8	.000,000	.000,000	.000,000	-.789	-.818	-.117	-.302
9	.000,000	.000,000	.000,000	-1.869	-1.900	-.850	-.568
10	-1.527	-1.907	-1.727	-1.525	-1.472	-.635	-.305
11	-1.331	-1.571	.000,000	-1.305	-1.287	-.471	-.334
12	-1.167	-1.140	-.862	-.910	-.808	-.339	-.207
13	-1.477	-1.104	-.781	-.752	-.632	-.279	-.296
14	-1.727	-1.289	-.928	-.860	-.731	-.434	-.348
15	-1.305	-.838	-.259	-.113	-.169	.048	-.128
16	-2.581	-2.557	-1.708	-1.746	-1.831	-1.090	-.567
17	-3.252	-3.410	-2.008	-2.475	-2.310	-1.381	-.764
18	-4.067	-3.689	-2.253	-2.769	-2.480	-1.634	-.921
19	-3.603	-3.658	-2.131	-3.160	-2.932	-1.548	-.985
20	-3.142	-2.887	-1.751	-2.048	-1.972	-1.102	-.717
21	-2.098	-1.978	-1.281	-1.370	-1.413	-.992	-.702
22	-1.888	-1.224	-.891	-.858	-1.018	-.733	-.662
23	-1.468	-.439	-.354	-.357	-.329	-.390	-.364
24	-.896	-.293	-.341	-.409	-.070	-.043	-.148
25	-.199	-.763	-1.988	.300	.284	-.033	-.224
26	.848	.853	.525	-.309	.000,000	-.125	.021
27	.605	.881	.893	-.155	-.159	-.152	-.039
28	.139	.587	.757	.313	-.165	-.041	.001
29	-.209	.476	.610	.616	.390	.112	.047
30	-.362	.698	.736	.774	.562	.637	-.057
31	.181	.912	.935	.980	.812	.659	-.042
32	.249	.896	.766	1.102	1.056	.652	-.030
33	.224	.584	.529	.849	.894	.565	-.198

$\alpha = 60°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-2.650	-3.212	-4.616	1.012	1.119	.733	-.496
2	-3.673	-4.156	-5.023	1.003	1.154	.645	-.597
3	-3.677	-4.185	-4.809	.932	1.020	.827	-.424
4	-3.362	-3.908	-4.238	.788	.780	.424	-.494
5	-2.855	-3.295	-2.789	.426	.334	.238	-.452
6	.000,000	.000,000	.000,000	-.311	-.165	-.183	-.068
7	.000,000	.000,000	.000,000	.267	.400	.393	-.303
8	.000,000	.000,000	.000,000	-.776	-.759	-.233	-.254
9	.000,000	.000,000	.000,000	-1.852	-1.635	-.678	-.248
10	-1.647	-2.032	-1.682	-1.674	-1.349	-.444	-.218
11	-1.267	-1.567	.000,000	-1.209	-1.027	-.328	-.205
12	-1.078	-1.138	-.836	-.818	-.670	-.220	-.198
13	-1.492	-1.112	-.822	-.732	-.491	-.215	-.171
14	-1.526	-1.169	-.841	-.769	-.457	-.256	-.188
15	-1.321	-.780	-.260	-.158	.017	.132	-.150
16	-2.651	-2.427	-1.703	-1.904	-1.514	-.720	-.391
17	-3.208	-3.209	-2.186	-2.621	-1.763	-.859	-.511
18	-3.350	-3.063	-2.293	-3.037	-2.046	-1.083	-.765
19	-3.688	-3.126	-2.327	-3.023	-1.961	-1.070	-.819
20	-2.841	-2.336	-1.634	-2.395	-1.630	-.682	-.680
21	-2.284	-1.770	-1.362	-1.730	-1.493	-.614	-.539
22	-1.665	-1.071	-.830	-.689	-.829	-.689	-.605
23	-1.273	-.522	-.394	-.442	-.279	-.132	-.219
24	-.746	-.375	-.409	-.234	-.086	-.068	-.072
25	-.806	-1.067	-2.045	-.369	-.283	-.199	-.144
26	.746	.694	.431	-.220	.000,000	-.183	.020
27	.515	.855	.890	-.148	-.134	-.090	-.020
28	.137	.552	.694	.179	-.122	-.048	-.013
29	-.170	.427	.589	.617	.252	.149	.057
30	-.250	.635	.677	.719	.588	.625	-.036
31	.232	.853	.800	.862	.658	.527	-.011
32	.281	.884	.612	1.071	1.029	.718	-.236
33	.193	.530	.414	.859	.878	.536	-.121

Table 28. - Continued.

(a) $C_{T,s} = 0.90$, $q_s = 20.22$

$\alpha = 65°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.357	-3.518	-4.685	1.019	1.089	.207	-.200
2	-4.195	-4.533	-5.249	1.035	1.158	.540	-.265
3	-4.191	-4.565	-5.019	.981	1.083	.558	-.229
4	-1.326	-.690	-.381	-.233	-.131	-.137	.051
5	-2.912	-3.349	-2.538	.379	.435	.338	-.189
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.275	.467	.548	-.043
8	.000,000	.000,000	.000,000	-.844	-.619	-.084	-.115
9	.000,000	.000,000	.000,000	-1.904	-1.533	-.411	-.196
10	-1.738	-2.135	-1.716	-1.716	-1.222	-.378	-.079
11	-1.321	-1.607	.000,000	-1.252	-.900	-.296	-.138
12	-1.062	-1.105	-.857	-.771	-.501	-.206	-.043
13	-1.481	-1.056	-.843	-.676	-.359	-.189	-.141
14	-1.549	-1.124	-.885	-.679	-.379	-.189	-.111
15	-1.095	-.693	-.207	-.102	.085	.161	-.103
16	-1.960	-2.162	-1.722	-1.687	-1.079	-.633	-.370
17	-2.892	-2.877	-2.248	-2.363	-1.216	-.583	-.482
18	-3.670	-2.964	-2.447	-2.528	-1.430	-.991	-.537
19	-3.237	-2.633	-2.298	-2.495	-1.545	-.922	-.547
20	-2.520	-2.031	-1.818	-2.105	-1.574	-.720	-.620
21	-1.750	-1.493	-1.358	-1.321	-1.218	-.368	-.419
22	-1.486	-.933	-.766	-.921	-.666	-.572	-.462
23	-.987	-.346	-.351	-.296	-.305	-.204	-.141
24	-.624	-.295	-.391	-.094	-.134	-.115	-.114
25	-1.314	-.965	-1.992	.290	.262	-.252	-.089
26	.462	.721	.510	-.216	.000,000	-.144	.059
27	.409	.939	.922	-.161	-.085	-.137	.053
28	.107	.567	.715	-.077	-.124	-.037	.092
29	-.244	.457	.587	.610	.174	.095	.067
30	-.382	.725	.765	.702	.480	.610	.107
31	.179	.965	.857	.980	.670	.543	-.077
32	.289	.899	.591	1.120	1.069	.713	.012
33	.199	.600	.547	.950	.976	.440	-.155

$\alpha = 70°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.806	-3.813	-4.607	1.021	1.097	.262	-.360
2	-4.546	-4.689	-5.064	1.017	1.147	.009	-.393
3	-4.432	-4.814	-4.776	1.003	1.111	.347	-.422
4	-3.808	-4.423	-4.070	.746	.875	.371	-.270
5	-3.113	-3.753	-2.568	.333	.483	.188	-.239
6	.000,000	.000,000	.000,000	-.309	-.115	-.021	-.225
7	.000,000	.000,000	.000,000	.217	.462	.310	-.057
8	.000,000	.000,000	.000,000	-.925	-.575	-.008	-.416
9	.000,000	.000,000	.000,000	-2.134	-1.433	-.108	-.157
10	-1.746	-2.278	-1.865	-1.721	-.986	-.171	-.223
11	-1.448	-1.764	.000,000	-1.267	-.797	-.112	-.216
12	-1.150	-1.137	-.867	-.805	-.463	-.137	-.246
13	-1.467	-1.106	-.811	-.550	-.372	-.003	-.393
14	-1.383	-1.056	-.829	-.686	-.506	-.112	-.438
15	-1.030	-.729	-.167	-.061	.081	.232	-.377
16	-2.670	-2.650	-2.226	-1.955	-1.556	-.520	-.637
17	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
18	-2.211	-2.329	-2.271	-1.884	-1.350	-.365	-.581
19	-2.402	-2.312	-2.217	-2.238	-1.254	-.553	-.587
20	-1.926	-1.767	-1.756	-1.557	-1.146	-.630	-.719
21	-1.509	-1.284	-1.056	-.884	-.941	-.448	-.566
22	-1.185	-.856	-.664	-.890	-.650	-.359	-.416
23	-.801	-.361	-.322	-.300	-.326	-.092	-.274
24	-.568	-.389	-.425	-.188	-.115	-.074	-.166
25	-1.879	-1.363	-2.106	.237	.133	-.175	-.226
26	.261	.669	.467	-.217	.000,000	-.061	-.124
27	.267	.853	.935	-.207	-.119	-.085	-.087
28	.036	.496	.687	-.060	-.102	-.001	-.245
29	-.337	.401	.576	.438	.068	.034	-.200
30	-.465	.665	.716	.625	.208	.471	-.098
31	.140	.882	.755	.745	.465	.519	-.187
32	.220	.908	.595	1.120	.853	.500	-.152
33	.179	.537	.550	.913	.985	.425	-.256

$\alpha = 75°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-4.422	-4.113	-4.386	.890	.801	.035	.004
2	-4.789	-5.150	-4.948	1.128	1.141	.076	-.171
3	-4.511	-4.889	-4.484	.944	1.001	.096	.034
4	-1.764	-.881	-.437	-.284	-.140	-.123	-.024
5	-2.916	-3.657	-2.368	.402	.541	-.004	-.048
6	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000	.000,000
7	.000,000	.000,000	.000,000	.252	.638	-.057	-.064
8	.000,000	.000,000	.000,000	-.936	-.236	-.162	-.021
9	.000,000	.000,000	.000,000	-2.000	-1.052	-.233	.013
10	-1.619	-2.275	-1.997	-1.756	-.999	-.292	-.022
11	-1.218	-1.522	.000,000	-1.194	-.667	-.221	-.106
12	-1.063	-1.133	-.849	-.687	-.401	-.257	-.159
13	-1.339	-.970	-.719	-.614	-.319	-.083	.003
14	-1.417	-.966	-.806	-.628	-.469	-.302	-.143
15	-1.057	-.709	-.206	-.008	.020	.142	.104
16	-1.735	-1.731	-1.435	-1.214	-1.326	-.396	-.424
17	-2.528	-2.283	-2.002	-1.730	-1.634	-.533	-.332
18	-2.690	-2.297	-2.284	-1.558	-1.784	-.708	-.693
19	-2.413	-2.109	-2.222	-1.913	-1.448	-.517	-.357
20	-1.907	-1.686	-1.546	-1.388	-1.216	-.449	-.274
21	-1.347	-1.317	-1.386	-.892	-1.095	-.392	-.391
22	-1.043	-.739	-.597	-.633	-.709	-.350	-.216
23	-.748	-.394	-.327	-.265	-.333	-.293	-.018
24	-.575	-.364	-.397	-.190	-.142	-.193	-.021
25	-2.591	-1.537	-2.193	.226	-.039	-.291	-.183
26	-.106	.681	.493	-.268	.000,000	-.086	.088
27	.133	.802	.848	-.159	-.174	-.074	.085
28	-.036	.441	.612	-.118	-.157	-.084	.146
29	-.280	.333	.520	.460	.003	-.005	-.039
30	-.670	.630	.586	.354	.226	.353	.024
31	.103	.957	.692	.639	.347	.299	.105
32	.130	.718	.439	.925	.850	.378	-.194
33	.081	.445	.449	.942	.766	.168	-.038

$\alpha = 80°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-4.574	-4.308	-4.437	.979	.419	-.013	-.234
2	-4.948	-5.143	-4.664	1.130	1.142	.158	-.111
3	-4.649	-5.091	-4.651	.983	1.053	.193	-.214
4	-3.770	-4.733	-3.876	.877	.992	.055	-.191
5	-2.786	-3.837	-2.277	.473	.609	-.179	-.183
6	.000,000	.000,000	.000,000	-.290	-.171	-.104	-.030
7	.000,000	.000,000	.000,000	.238	.562	-.133	-.277
8	.000,000	.000,000	.000,000	-.807	-.198	-.129	-.306
9	.000,000	.000,000	.000,000	-1.986	-.722	-.094	-.280
10	-1.504	-2.171	-1.747	-1.558	-.745	-.131	-.068
11	-1.208	-1.476	.000,000	-1.062	-.609	-.113	-.158
12	-1.061	-1.101	-.766	-.624	-.394	.006	-.339
13	-1.343	-1.003	-.723	-.531	-.479	-.179	-.353
14	-1.207	-.912	-.672	-.469	-.624	-.053	-.204
15	-1.013	-.820	-.132	.083	-.087	.098	-.264
16	-1.797	-1.557	-1.348	-1.027	-1.070	-.368	-.420
17	-1.863	-1.825	-1.741	-1.361	-1.138	-.250	-.381
18	-2.045	-1.983	-1.946	-1.272	-1.364	-.397	-.246
19	-2.069	-2.009	-2.096	-1.018	-.894	-.161	-.317
20	-1.567	-1.485	-1.390	-1.222	-.949	-.189	-.370
21	-1.185	-1.237	-1.109	-.613	-.889	-.129	-.266
22	-.992	-.813	-.558	-.416	-.565	-.216	-.253
23	-.634	-.440	-.348	-.275	-.267	-.119	-.356
24	-.404	-.291	-.148	-.194	-.180	-.189	-.260
25	-2.697	-1.495	-1.935	.108	-.355	-.217	-.153
26	-.357	.576	.463	-.389	.000,000	-.022	.083
27	.093	.769	.843	-.137	-.115	.005	-.046
28	-.070	.411	.607	-.154	-.129	.003	-.107
29	-.281	.321	.500	.244	-.138	-.011	.020
30	-.409	.565	.692	.443	.174	.320	-.045
31	-.002	.848	.680	.493	.186	.402	-.144
32	.150	.703	.568	.463	.141	.206	-.037
33	.084	.352	.470	.995	.632	.005	-.047

Table 28. - Continued.

(b) $C_{T,S} = 0.80$, $q_s = 20.00$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.901	.507	.137	-.421	.422	.788	.359
2	.266	-.313	-.634	.259	.998	1.142	.632
3	0.	-.585	-.704	.419	1.169	1.260	.617
4	-.360	-.954	-.905	.779	1.184	1.111	.572
5	-.598	-1.123	-1.057	.839	.974	.850	.432
6	*000.000	*000.000	*000.000	-.191	-.032	.057	.051
7	*000.000	*000.000	*000.000	.730	.725	.657	.431
8	*000.000	*000.000	*000.000	.245	.034	.001	-.247
9	*000.000	*000.000	*000.000	-.563	-.831	-.883	-.816
10	-.546	-.993	-1.209	-.731	-.862	-.814	-.637
11	-.516	-1.024	*000.000	-.825	-.904	-.629	-.518
12	-1.063	-.752	-.768	-.612	-.687	-.439	-.381
13	-.582	-.795	-.749	-.580	-.538	-.351	-.375
14	-.650	-.780	-.782	-.560	-.447	-.340	-.281
15	-.280	-1.705	-.110	.063	-.081	.097	-.064
16	-1.456	-1.804	-1.533	-.866	-.574	-.470	-.338
17	-2.214	-2.775	-2.302	-1.244	-.992	-.587	-.540
18	-2.399	-2.886	-2.402	-1.360	-.868	-.584	-.518
19	-2.467	-2.848	-2.316	-1.112	-.476	-.767	-.332
20	-2.302	-2.101	-1.557	-.606	-.262	-.158	-.228
21	-2.013	-1.315	-.730	-.343	-.234	-.091	-.088
22	-1.597	-.466	-.221	-.222	-.145	-.056	-.101
23	-.837	-.358	-.301	-.254	-.152	-.107	-.136
24	-.501	-.358	-.160	-.191	-.136	-.130	-.201
25	.991	1.045	.631	-.684	-.263	-.050	.084
26	.633	.900	.717	-.656	*000.000	-.171	.374
27	.087	.452	.646	-.233	-.075	.125	.006
28	.079	.305	.457	-.233	-.011	.079	.100
29	.200	.504	.442	.118	-.103	.047	.086
30	.344	.780	.594	.213	.090	.175	.038
31	.528	.744	.717	.531	.214	.145	.361
32	.783	.990	.903	.241	.037	.135	-.029
33	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.684	.121	-.512	-.116	.725	.921	.588
2	-.046	-.814	-1.229	.445	1.133	1.177	.663
3	-.306	-1.042	-1.345	.560	1.145	1.138	.456
4	-.703	-1.295	-1.365	.803	1.177	1.037	.356
5	-.795	-1.450	-1.393	.796	.876	.590	.285
6	*000.000	*000.000	*000.000	-.122	.005	-.006	.060
7	*000.000	*000.000	*000.000	.675	.712	.622	.386
8	*000.000	*000.000	*000.000	.126	-.097	-.317	-.355
9	*000.000	*000.000	*000.000	-.710	-1.069	-1.156	-.962
10	-.669	-1.186	-1.290	-.901	-1.026	-.978	-.708
11	-.623	-1.103	*000.000	-.926	-1.012	-.811	-.631
12	-1.216	-.844	-.863	-.715	-.744	-.562	-.450
13	-.618	-.756	-.772	-.582	-.536	-.461	-.388
14	-.776	-.808	-.757	-.592	-.517	-.372	-.303
15	-.412	-1.676	-.150	.025	-.038	.028	.046
16	-1.726	-1.887	-1.728	-.948	-.881	-.733	-.560
17	-2.378	-2.756	-2.461	-1.400	-1.069	-.861	-.531
18	-2.847	-2.935	-2.837	-1.565	-1.362	-1.017	-.876
19	-2.816	-2.727	-2.495	-1.233	-.916	-1.109	-.598
20	-2.670	-2.140	-1.608	-.609	-.514	-.584	-.505
21	-2.224	-1.301	-.935	-.433	-.283	-.265	-.224
22	-1.710	-.457	-.274	-.379	-.241	-.236	-.172
23	-.842	-.396	-.245	-.295	-.191	-.258	-.254
24	-.663	-.375	-.227	-.245	-.135	-.197	-.164
25	1.072	.971	.383	-.431	-.042	.116	.239
26	.794	.998	.836	-.549	*000.000	-.102	.286
27	.224	.652	.729	-.131	.026	.060	.026
28	.106	.432	.566	-.102	-.023	.028	.111
29	.184	.538	.527	.228	-.016	.047	.028
30	.263	.807	.627	.226	.098	.207	.120
31	.719	1.068	1.031	.359	.173	.245	.128
32	.745	.998	.931	.640	.258	.249	.270
33	.563	.754	.736	.700	.308	.256	.427

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.427	-.526	-1.609	.297	.899	1.016	.656
2	-.498	-1.588	-2.272	.653	1.166	1.201	.552
3	-.692	-1.724	-2.383	.685	1.161	1.166	.534
4	-1.040	-1.950	-2.322	.755	1.061	.863	.234
5	-1.078	-1.866	-1.962	.734	.714	.467	.118
6	*000.000	*000.000	*000.000	-.020	.030	.096	.074
7	*000.000	*000.000	*000.000	.536	.598	.601	.340
8	*000.000	*000.000	*000.000	-.047	-.391	-.490	-.454
9	*000.000	*000.000	*000.000	-.883	-1.439	-1.438	-1.112
10	-.803	-1.388	-1.607	-1.008	-1.217	-1.136	-.809
11	-.697	-1.204	*000.000	-.997	-1.172	-.868	-.651
12	-1.348	-.902	-.951	-.782	-.902	-.617	-.561
13	-.748	-.910	-.862	-.647	-.705	-.523	-.447
14	-1.038	-.965	-.982	-.627	-.718	-.541	-.385
15	-.697	-1.955	-.266	.039	-.103	-.019	-.067
16	-1.898	-1.889	-1.836	-1.181	-1.116	-.937	-.654
17	-2.844	-2.895	-2.638	-1.501	-1.519	-1.259	-.996
18	-3.297	-3.050	-2.930	-1.695	-1.550	-1.548	-1.224
19	-3.402	-2.892	-2.861	-1.750	-1.090	-1.425	-1.080
20	-2.734	-2.028	-1.865	-.677	-.574	-.649	-.762
21	-2.313	-1.301	-1.158	-.366	-.317	-.315	-.355
22	-1.605	-.554	-.481	-.364	-.210	-.217	-.212
23	-.932	-.464	-.510	-.268	-.255	-.221	-.223
24	-.844	-.505	-.401	-.255	-.215	-.294	-.256
25	1.094	.735	.270	.212	.078	.215	.256
26	.941	1.064	.684	-.337	*000.000	.141	.140
27	.407	.815	.842	-.050	-.010	.098	.022
28	.198	.546	.678	.023	-.024	.118	.083
29	.174	.575	.563	.464	.239	.200	.195
30	.212	.823	.691	.547	.385	.373	.180
31	.569	.712	.724	.921	.660	.615	.788
32	.682	.944	.835	.954	.386	.380	.368
33	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.088	-1.290	-2.860	.656	1.049	1.235	.486
2	-.915	-2.299	-3.379	.828	1.221	1.169	.298
3	-1.201	-2.562	-3.485	.830	1.206	1.106	.208
4	-1.466	-2.640	-3.339	.784	.986	.859	.049
5	-1.504	-2.552	-2.901	.738	.637	.437	-.170
6	*000.000	*000.000	*000.000	-.066	.046	.117	.039
7	*000.000	*000.000	*000.000	.465	.530	.424	.031
8	*000.000	*000.000	*000.000	-.266	-.654	-.644	-.600
9	*000.000	*000.000	*000.000	-1.193	-1.788	-1.705	-1.288
10	-.942	-1.598	-1.808	-1.242	-1.432	-1.288	-.917
11	-.864	-1.356	*000.000	-1.130	-1.334	-.992	-.783
12	-1.333	-.960	-.949	-.812	-.933	-.612	-.539
13	-.991	-1.050	-.920	-.717	-.746	-.579	-.444
14	-1.346	-1.170	-1.003	-.786	-.855	-.591	-.472
15	-.971	-2.065	-.273	-.029	-.020	-.001	-.062
16	-2.603	-2.555	-1.985	-1.401	-1.261	-1.250	-.798
17	-3.777	-3.909	-2.968	-2.021	-1.877	-1.529	-1.092
18	-4.439	-4.137	-3.020	-2.340	-2.297	-2.082	-1.403
19	-4.321	-4.001	-2.781	-2.154	-1.697	-1.893	-1.274
20	-3.886	-3.423	-2.190	-1.492	-.878	-1.199	-1.001
21	-3.196	-2.693	-1.492	-.528	-.377	-.718	-.762
22	-2.113	-1.656	-.684	-.291	-.309	-.370	-.420
23	-1.261	-.729	-.178	-.255	-.261	-.238	-.251
24	-1.039	-.515	-.157	-.251	-.268	-.251	-.304
25	1.000	.433	-.982	-.145	.256	.300	.240
26	.975	1.046	.651	-.193	*000.000	.102	.061
27	.495	.968	.947	.012	.042	.102	.022
28	.220	.618	.789	.210	.003	.051	.090
29	.112	.627	.675	.671	.451	.399	.227
30	.097	.817	.766	.729	.529	.576	.217
31	.445	1.009	1.001	.974	.681	.660	.130
32	.589	.954	.946	1.040	.872	.643	.437
33	.447	.732	.824	.931	.824	.603	.528

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.376	-2.041	-3.816	.879	1.139	1.218	.125
2	-1.424	-3.206	-4.682	1.011	1.271	1.189	-.178
3	-1.551	-3.157	-4.226	.839	1.049	.926	-.039
4	-1.730	-3.029	-3.778	.684	.796	.577	-.254
5	-1.673	-2.740	-3.036	.518	.387	.140	-.456
6	*000.000	*000.000	*000.000	-.010	.016	.050	-.032
7	*000.000	*000.000	*000.000	.368	.449	.363	-.160
8	*000.000	*000.000	*000.000	-.577	-.809	-.788	-.834
9	*000.000	*000.000	*000.000	-1.585	-2.066	-1.885	-1.390
10	-1.136	-1.846	-2.003	-1.550	-1.728	-1.517	-1.093
11	-.948	-1.463	*000.000	-1.241	-1.453	-1.060	-.855
12	-1.379	-1.056	-.908	-.924	-1.049	-.719	-.635
13	-1.179	-1.122	-.881	-.795	-.867	-.620	-.542
14	-1.526	-1.252	-.974	-.861	-.934	-.706	-.541
15	-1.048	-1.997	-.202	-.077	-.061	-.077	-.136
16	-2.845	-2.674	-1.936	-1.801	-1.759	-1.530	-.966
17	-3.900	-3.836	-2.337	-2.506	-2.468	-2.022	-1.413
18	-4.395	-4.187	-2.719	-2.546	-2.563	-2.497	-1.687
19	-4.763	-4.499	-2.732	-2.938	-2.443	-2.489	-1.552
20	-3.547	-3.491	-1.850	-2.157	-1.621	-1.744	-1.309
21	.109	.640	.756	.721	.621	.437	.328
22	-2.371	-1.817	-.917	-.431	-.344	-.495	-.759
23	-1.455	-.866	-.277	-.323	-.295	-.339	-.398
24	-1.390	-.031	-.063	-.250	-.322	-.345	-.355
25	.877	-.145	-1.776	.355	.447	.434	.088
26	1.093	1.009	.591	-.145	*000.000	.028	-.003
27	.618	1.023	.996	-.047	-.016	.031	-.020
28	.263	.726	.905	.480	.067	-.036	.073
29	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
30	.039	.814	.801	.825	.734	.604	.174
31	.410	.996	.978	1.123	.864	.742	.169
32	.517	.951	.971	1.110	1.006	.779	.257
33	.461	.771	.847	.926	1.023	.705	.278

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.765	-2.852	-4.834	.997	1.293	1.245	-.261
2	-1.850	-3.914	-5.472	.913	1.239	1.173	-.484
3	-1.967	-3.940	-5.214	.860	1.001	.889	-.596
4	-2.117	-3.715	-4.552	.640	.729	.541	-.610
5	-1.900	-3.067	-3.466	.403	.330	.087	-.653
6	*000.000	*000.000	*000.000	-.140	.047	.022	-.064
7	*000.000	*000.000	*000.000	.308	.418	.197	-.385
8	*000.000	*000.000	*000.000	-.768	-.956	-.817	-.823
9	*000.000	*000.000	*000.000	-1.870	-2.188	-1.706	-1.092
10	-1.313	-2.101	-2.275	-1.852	-1.918	-1.479	-.955
11	-1.047	-1.483	*000.000	-1.305	-1.427	-.932	-.724
12	-1.384	-1.147	-.961	-1.010	-1.071	-.669	-.592
13	-1.252	-1.129	-.905	-.878	-.878	-.605	-.522
14	-1.732	-1.315	-.983	-.852	-.965	-.684	-.591
15	-1.160	-1.891	-.244	-.037	-.026	-.015	-.225
16	-2.716	-2.640	-1.775	-1.755	-1.964	-1.620	-.901
17	-3.831	-3.859	-2.294	-2.626	-2.646	-2.126	-1.459
18	-4.473	-4.192	-2.443	-2.863	-2.813	-2.808	-1.679
19	-3.815	-3.893	-2.138	-2.821	-2.747	-2.645	-1.625
20	-3.242	-3.368	-1.723	-1.988	-1.599	-2.254	-1.590
21	-2.268	-2.511	-1.275	-1.191	-.673	-1.304	-1.156
22	-2.088	-1.699	-.905	-.395	-.447	-.984	-.958
23	-1.568	-.729	-.406	-.393	-.335	-.465	-.594
24	-1.412	-.081	-.223	-.346	-.326	-.423	-.371
25	.647	-.652	-2.301	.537	.558	.469	-.091
26	1.060	.869	.493	-.074	*000.000	.029	-.056
27	.663	1.017	.997	-.018	-.025	-.017	-.096
28	.287	.740	.880	.774	.068	-.095	.098
29	.045	.613	.699	.754	.738	.496	.247
30	-.116	.809	.847	.905	.859	.786	.057
31	.325	1.020	1.061	1.198	1.044	.904	.058
32	.505	.935	.923	1.138	1.172	.871	.281
33	.383	.674	.737	.910	.860	.787	.100

Table 28. - Continued.

(b) $C_{T,S} = 0.80$, $q_s = 20.00$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.266	-3.621	-5.569	1.025	1.248	1.215	-.463
2	-2.387	-4.661	-6.258	.851	1.149	1.161	-.793
3	-2.410	-4.497	-5.660	.763	.886	.867	-.841
4	-2.449	-4.167	-5.071	.453	.589	.440	-.694
5	-2.135	-3.375	-3.825	.230	.130	-.055	-.769
6	*000.000	*000.000	*000.000	.068	-.069	.047	-.117
7	*000.000	*000.000	*000.000	.213	.302	.379	-.278
8	*000.000	*000.000	*000.000	-.983	-1.100	-.844	-.751
9	*000.000	*000.000	*000.000	-2.251	-2.353	-1.783	-1.180
10	-1.418	-2.126	-2.261	-1.980	-1.961	-1.377	-.830
11	-1.184	-1.577	*000.000	-1.464	-1.505	-.879	-.671
12	-1.381	-1.183	-.955	-1.103	-1.084	-.517	-.533
13	-1.349	-1.111	-.863	-.918	-.912	-.550	-.519
14	-1.452	-1.284	-.956	-.953	-1.030	-.770	-.550
15	-1.277	-1.869	-.232	-.040	-.173	-.050	-.277
16	-2.812	-2.737	-1.871	-1.876	-2.075	-1.849	-.944
17	-3.758	-3.801	-2.176	-2.442	-3.021	-2.226	-1.379
18	-4.044	-4.256	-2.513	-3.040	-3.422	-3.388	-2.149
19	-3.707	-4.015	-2.219	-2.624	-2.992	-2.979	-1.644
20	.300	.816	.951	.873	.074	-.028	.101
21	-2.397	-2.364	-1.255	-.828	-1.351	-1.578	-1.166
22	-2.035	-1.523	-.911	-.475	-.668	-1.357	-1.141
23	-1.644	-.500	-.368	-.405	-.441	-.519	-.871
24	-1.328	-.139	-.268	-.384	-.416	-.404	-.416
25	.440	-1.146	-2.741	.686	.602	.411	-.318
26	1.053	.842	.450	.016	*000.000	.037	-.017
27	.686	1.027	.980	.091	-.108	-.020	.062
28	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
29	.012	.653	.739	.745	.734	.431	.252
30	-.192	.812	.854	.852	.790	.808	-.007
31	.277	.970	.957	1.089	1.148	1.062	.046
32	.435	.983	.926	1.064	1.222	1.054	.265
33	.340	.719	.725	.838	.926	.673	-.004

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.701	-4.199	-6.033	1.117	1.265	1.240	-.661
2	-2.965	-5.445	-7.036	.849	1.111	.937	-.989
3	-3.011	-5.157	-6.473	.671	.846	.661	-.884
4	-2.997	-4.796	-5.709	.436	.526	.364	-.952
5	-2.330	-3.686	-4.099	.072	.012	-.104	-.843
6	*000.000	*000.000	*000.000	.094	-.035	-.043	-.074
7	*000.000	*000.000	*000.000	-.177	.023	.312	-.424
8	*000.000	*000.000	*000.000	-1.149	-1.196	-.784	-.716
9	*000.000	*000.000	*000.000	-2.393	-2.367	-1.615	-.941
10	-1.484	-2.119	-2.127	-2.022	-1.875	-1.136	-.706
11	-1.261	-1.599	*000.000	-1.540	-1.448	-.802	-.675
12	-1.419	-1.231	-1.018	-1.138	-1.072	-.648	-.543
13	-1.566	-1.184	-.883	-.959	-.925	-.615	-.482
14	-1.791	-1.257	-.888	-.931	-.913	-.661	-.507
15	-1.316	-1.931	-.244	-.179	-.191	-.050	-.307
16	-3.054	-2.769	-1.865	-2.148	-2.267	-1.826	-.973
17	-3.618	-3.776	-2.246	-2.624	-3.144	-2.253	-1.286
18	-3.988	-3.984	-2.363	-2.944	-3.406	-2.910	-1.647
19	-3.605	-3.830	-2.259	-3.166	-3.560	-2.810	-1.751
20	-2.645	-2.986	-1.804	-2.220	-2.875	-2.565	-1.477
21	-2.528	-2.253	-1.363	-.884	-2.115	-2.014	-1.361
22	-1.918	-1.425	-1.003	-.495	-.844	-1.332	-.990
23	-1.742	-.471	-.495	-.479	-.532	-.655	-.907
24	-1.276	-.227	-.339	-.425	-.361	-.306	-.334
25	.168	-1.573	-3.361	.836	.668	.452	-.145
26	1.035	.724	.345	-.002	*000.000	.035	-.015
27	.742	1.030	1.009	.089	-.134	.005	.066
28	.267	.787	.872	.836	.353	.015	.163
29	-.053	.600	.734	.729	.691	.372	.212
30	-.336	.851	.862	.965	.845	.679	-.074
31	.220	1.023	.974	1.109	1.201	1.034	-.064
32	.416	.958	.845	1.047	1.156	.999	.171
33	.331	.688	.534	.867	.940	.553	-.225

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.470	-4.863	-6.594	1.138	1.306	1.146	-.904
2	-3.554	-5.892	-7.393	.752	1.037	.938	-.801
3	-3.539	-5.540	-6.564	.516	.739	.724	-.806
4	-3.297	-4.924	-5.631	.253	.394	.252	-1.013
5	-2.765	-3.986	-4.153	.065	.003	-.106	-.663
6	*000.000	*000.000	*000.000	.080	-.050	.053	.019
7	*000.000	*000.000	*000.000	-.354	-.145	.375	-.324
8	*000.000	*000.000	*000.000	-1.403	-1.251	-.586	-.533
9	*000.000	*000.000	*000.000	-2.506	-2.351	-1.339	-.589
10	-1.626	-2.210	-2.124	-2.138	-1.808	-.966	-.642
11	-1.349	-1.635	*000.000	-1.536	-1.316	-.646	-.520
12	-1.302	-1.164	-.916	-1.064	-.848	-.434	-.339
13	-1.671	-1.204	-.917	-.978	-.702	-.464	-.409
14	-1.872	-1.258	-.960	-1.036	-.871	-.546	-.404
15	-1.423	-1.850	-.207	-.202	-.118	.004	-.287
16	-2.709	-2.609	-1.789	-2.239	-2.001	-1.702	-.900
17	-3.311	-3.666	-2.377	-3.027	-2.303	-1.890	-1.101
18	-3.680	-3.513	-2.361	-3.244	-2.931	-2.080	-1.132
19	-3.490	-3.332	-2.282	-3.399	-2.827	-2.408	-1.364
20	-2.718	-2.532	-1.676	-2.876	-2.472	-2.017	-1.237
21	-2.463	-1.931	-1.319	-1.488	-1.836	-1.563	-.993
22	-2.015	-1.238	-.657	-.802	-1.416	-1.151	-.802
23	-1.457	-.518	-.459	-.544	-.493	-.583	-.582
24	-1.121	-.369	-.408	-.331	-.140	-.183	-.354
25	-.351	-1.951	-3.441	.851	.705	.349	-.455
26	.991	.663	.330	-.082	*000.000	.026	.050
27	.690	.974	.912	.083	-.158	.004	.153
28	.287	.797	.953	.862	.345	.131	.225
29	-.114	.649	.778	.775	.686	.303	.268
30	-.425	.794	.804	.870	.813	.612	-.107
31	.183	.989	.905	1.074	1.174	.918	-.060
32	.361	.972	.733	1.078	1.196	1.023	.195
33	.283	.663	.548	.826	.885	.626	.028

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.206	-5.387	-6.986	1.174	1.292	.888	-.891
2	-4.203	-6.139	-6.737	.720	.990	.869	-.811
3	-4.363	-6.309	-6.779	.460	.689	.611	-.885
4	-3.777	-5.196	-5.502	.177	.318	.205	-.977
5	-3.074	-4.180	-4.061	-.089	-.069	-.137	-.712
6	*000.000	*000.000	*000.000	.032	-.058	.010	-.158
7	*000.000	*000.000	*000.000	-.358	-.119	.274	-.515
8	*000.000	*000.000	*000.000	-1.537	-1.248	-.605	-.600
9	*000.000	*000.000	*000.000	-2.617	-2.360	-1.245	-.660
10	-1.901	-2.457	-2.229	-2.293	-1.871	-.880	-.571
11	-1.495	-1.738	*000.000	-1.560	-1.229	-.527	-.390
12	-1.276	-1.214	-.910	-1.027	-.750	-.419	-.423
13	-1.774	-1.270	-1.008	-.996	-.647	-.511	-.434
14	-1.694	-1.171	-.913	-.852	-.564	-.382	-.346
15	-1.309	-1.851	-.185	-.197	.104	-.008	-.332
16	-2.730	-2.595	-1.794	-2.284	-1.780	-1.299	-.841
17	-3.314	-3.290	-2.268	-2.899	-2.227	-1.789	-1.180
18	-3.911	-3.424	-2.528	-3.379	-2.797	-2.268	-1.462
19	-3.186	-3.027	-2.278	-3.236	-2.456	-2.327	-1.063
20	-2.596	-2.298	-1.731	-2.605	-2.044	-1.340	-1.066
21	-2.156	-1.790	-1.269	-1.980	-1.772	-1.357	-.936
22	-1.708	-1.217	-.703	-1.083	-1.121	-1.209	-.985
23	-1.360	-.496	-.471	-.343	-.527	-.472	-.500
24	-1.075	-.464	-.439	-.236	-.151	-.227	-.270
25	-.674	-2.379	-3.594	.926	.772	.414	-.374
26	.821	.634	.251	-.130	*000.000	.003	-.116
27	.700	1.032	.991	.072	-.127	.020	.096
28	.241	.786	.923	.874	.402	.041	.065
29	-.151	.574	.684	.734	.619	.280	.110
30	-.378	.835	.791	.948	.750	.568	-.123
31	.143	1.040	.918	1.141	1.198	1.028	-.200
32	.303	.989	.745	1.100	1.160	.954	.221
33	.210	.655	.609	.877	.851	.545	.091

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-4.242	-5.998	-6.685	1.159	1.293	.950	-.726
2	-4.892	-6.584	-6.803	.650	.900	.586	-.730
3	-4.678	-6.398	-6.311	.506	.684	.422	-.572
4	-4.347	-5.667	-5.814	.179	.340	.159	-.606
5	-3.304	-4.319	-4.014	-.156	-.050	.021	-.500
6	*000.000	*000.000	*000.000	.025	.005	.147	-.034
7	*000.000	*000.000	*000.000	-.443	-.239	.443	-.407
8	*000.000	*000.000	*000.000	-1.480	-1.241	-.421	-.506
9	*000.000	*000.000	*000.000	-2.688	-2.184	-.948	-.443
10	-1.930	-2.510	-2.148	-2.253	-1.719	-.631	-.303
11	-1.364	-1.706	*000.000	-1.470	-1.177	-.342	-.246
12	-1.209	-1.226	-.913	-1.031	-.666	-.329	-.275
13	-1.593	-1.174	-.926	-.867	-.510	-.244	-.270
14	-1.738	-1.259	-.960	-.962	-.632	-.344	-.343
15	-1.223	-1.820	-.138	-.230	.196	.041	-.248
16	-2.199	-2.283	-1.749	-1.996	-1.547	-1.087	-.589
17	-3.229	-3.068	-2.329	-2.912	-2.079	-1.312	-1.093
18	-3.154	-2.796	-2.296	-2.766	-1.765	-1.322	-.800
19	-3.454	-2.776	-2.309	-2.988	-2.126	-1.963	-.970
20	-2.666	-2.102	-1.805	-2.458	-1.569	-1.360	-1.120
21	-1.795	-1.554	-1.212	-1.955	-1.528	-1.359	-1.087
22	-1.459	-.914	-.635	-1.077	-1.000	-.913	-.803
23	-1.162	-.467	-.443	-.421	-.554	-.527	-.769
24	-.754	-.430	-.507	-.082	-.131	-.171	-.159
25	-1.669	-2.621	-3.602	.890	.710	.163	-.302
26	.555	.589	.308	-.092	*000.000	.034	-.049
27	.510	1.033	.921	.050	-.197	.003	.136
28	.192	.781	.903	.843	.322	.110	.120
29	-.179	.526	.663	.699	.591	.227	.205
30	-.266	.799	.772	.872	.711	.648	-.118
31	.216	1.071	.817	1.081	1.135	.929	-.153
32	.272	.899	.750	1.062	1.123	.903	.145
33	.161	.529	.549	.860	.782	.477	-.124

Table 28. - Continued.

(b) $C_{T,S} = 0.80$, $q_S = 20.00$

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-4.682	-6.041	-6.417	1.040	1.202	.470	-.484
2	-5.736	-7.469	-7.460	.580	.954	.495	-.349
3	-5.425	-7.134	-6.687	.393	.646	.213	-.456
4	-4.584	-5.938	-5.469	.116	.371	.193	-.427
5	-3.499	-5.021	-4.427	-.279	-.158	-.136	-.394
6	*000.000	*000.000	*000.000	-.043	-.044	.004	-.088
7	*000.000	*000.000	*000.000	-.474	-.133	.370	-.164
8	*000.000	*000.000	*000.000	-1.589	-1.112	-.336	-.238
9	*000.000	*000.000	*000.000	-2.783	-2.271	-.934	-.361
10	-1.915	-2.623	-2.155	-2.235	-1.554	-.558	-.108
11	-1.440	-1.839	*000.000	-1.570	-1.055	-.376	-.228
12	-1.189	-1.127	-.880	-.915	-.572	-.246	-.228
13	-1.560	-1.176	-1.022	-.920	-.527	-.365	-.309
14	-1.396	-1.104	-.988	-.910	-.510	-.416	-.323
15	-1.205	-1.624	-.213	-.174	.149	.033	-.238
16	-2.262	-2.342	-1.969	-2.070	-1.282	-1.020	-.578
17	-2.541	-2.676	-2.338	-2.621	-1.875	-1.204	-.801
18	-2.814	-2.694	-2.528	-3.087	-2.206	-1.698	-1.132
19	-2.295	-2.390	-2.438	-2.898	-2.187	-1.662	-.767
20	-1.950	-1.770	-1.767	-2.518	-1.729	-1.252	-1.009
21	-1.324	-1.256	-1.350	-1.759	-1.512	-1.245	-.966
22	-1.380	-.726	-.721	-1.193	-.952	-.939	-.855
23	-1.023	-.475	-.428	-.323	-.348	-.459	-.369
24	-.620	-.426	-.476	-.129	-.048	-.171	-.207
25	-2.498	-2.737	-3.382	.897	.717	.237	-.188
26	-.056	.495	.269	-.132	*000.000	-.023	.020
27	.276	1.033	.998	.060	-.067	.038	.186
28	.033	.631	.765	.757	.302	.069	.112
29	-.246	.498	.600	.698	.593	.198	.188
30	-.474	.727	.634	.877	.684	.546	-.149
31	.221	1.111	.808	1.164	1.207	.835	-.101
32	.254	.802	.740	1.086	1.145	.852	.184
33	.156	.361	.607	.839	.762	.438	-.059

$\alpha = 65°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-5.372	-6.654	-6.649	.965	1.121	.243	-.562
2	-5.571	-7.526	-7.074	.532	.822	.489	-.341
3	-5.140	-7.434	-6.929	.318	.586	.254	-.304
4	-4.563	-6.426	-5.998	-.050	.231	.039	-.291
5	-2.901	-4.711	-4.108	-.239	-.052	.067	-.314
6	*000.000	*000.000	*000.000	-.012	-.059	-.009	-.079
7	*000.000	*000.000	*000.000	-.635	-.242	.289	-.119
8	*000.000	*000.000	*000.000	-1.585	-1.111	-.192	-.239
9	*000.000	*000.000	*000.000	-2.704	-2.059	-.684	-.234
10	-1.708	-2.725	-2.192	-2.375	-1.663	-.517	-.209
11	-1.253	-1.827	*000.000	-1.560	-1.025	-.412	-.307
12	-1.295	-1.241	-.985	-1.064	-.708	-.313	-.300
13	-1.395	-1.116	-.951	-.773	-.253	-.318	-.291
14	-1.575	-1.255	-1.124	-.962	-.622	-.381	-.379
15	-1.145	-1.491	-.282	-.146	.053	.082	-.193
16	-1.962	-2.112	-2.010	-2.077	-1.303	-1.269	-.739
17	-2.145	-2.393	-2.356	-2.648	-1.988	-1.258	-.843
18	-1.984	-2.329	-2.602	-2.564	-1.659	-1.349	-.921
19	-2.095	-2.368	-2.618	-2.658	-1.870	-1.454	-1.117
20	-1.467	-1.656	-2.020	-2.338	-1.755	-1.189	-1.024
21	-1.213	-1.162	-1.520	-1.720	-1.292	-1.002	-.973
22	-1.111	-.664	-.835	-1.118	-.992	-.773	-.711
23	-.798	-.431	-.458	-.370	-.379	-.436	-.510
24	-.545	-.393	-.472	-.117	-.109	-.217	-.166
25	-3.562	-3.146	-3.452	.938	.791	.065	-.481
26	-.551	.247	.242	-.186	*000.000	.012	-.014
27	-.108	.817	.862	.065	-.167	-.031	.042
28	-.020	.567	.691	.724	.335	.053	.078
29	-.238	.326	.430	.526	.438	.136	.084
30	-.512	.745	.547	.770	.549	.381	-.206
31	.114	.919	.608	.991	.991	.707	-.150
32	.237	.611	.615	1.018	1.069	.821	.057
33	.157	.305	.620	.796	.674	.389	-.044

$\alpha = 70°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-5.217	-6.796	-6.151	1.054	1.198	.215	-.021
2	-5.326	-7.810	-6.857	.557	.911	.276	-.126
3	-5.093	-7.599	-6.220	.484	.750	.428	.102
4	-3.977	-6.463	-5.632	-.019	.195	.169	-.148
5	-2.782	-4.681	-3.779	-.091	.117	.298	-.028
6	*000.000	*000.000	*000.000	-.034	.031	.018	.059
7	*000.000	*000.000	*000.000	-.492	.209	.261	.009
8	*000.000	*000.000	*000.000	-1.419	-.791	-.092	-.069
9	*000.000	*000.000	*000.000	-2.683	-1.815	-.386	-.130
10	-1.552	-2.634	-2.015	-2.183	-1.333	-.292	-.150
11	-1.072	-1.630	*000.000	-1.399	-.758	-.243	-.144
12	-1.248	-1.217	-.985	-.860	-.525	-.218	-.209
13	-1.181	-1.101	-.984	-.804	-.379	-.285	-.194
14	-1.262	-1.067	-.990	-.681	-.445	-.415	-.328
15	-.959	-1.500	-.355	-.111	.120	.079	-.170
16	-1.545	-1.822	-1.875	-1.667	-1.162	-.977	-.571
17	-1.415	-2.153	-2.371	-2.407	-1.640	-1.030	-.778
18	-1.617	-2.211	-2.533	-2.500	-1.844	-1.431	-.851
19	-1.524	-2.104	-2.605	-2.616	-1.965	-1.419	-.619
20	-1.253	-1.515	-2.182	-1.999	-1.296	-1.000	-.901
21	-.992	-1.120	-1.710	-1.726	-1.325	-.971	-.751
22	-.913	-.656	-1.064	-.933	-.781	-.850	-.815
23	-.783	-.499	-.517	-.397	-.440	-.381	-.317
24	-.531	-.449	-.402	-.111	-.121	-.182	-.168
25	-4.374	-3.956	-3.495	1.075	.814	-.008	-.035
26	-.838	-.007	.318	-.130	*000.000	-.025	.028
27	-.253	.600	.937	0.	.024	.068	.167
28	-.026	.418	.756	.823	.014	.098	.151
29	-.123	.291	.458	.589	.516	.196	.140
30	-.308	.612	.474	.811	.645	.530	-.045
31	.272	.802	.620	1.098	1.042	.645	.007
32	.165	.629	.652	1.013	1.112	.753	.041
33	.029	.184	.576	.777	.760	.407	-.388

$\alpha = 75°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-5.235	-7.256	-6.477	1.069	1.126	.228	.022
2	-4.394	-7.631	-6.923	.553	1.047	.320	-.171
3	-3.509	-6.843	-6.209	.359	.716	-.067	-.157
4	-2.992	-5.881	-5.300	.113	.461	.311	-.062
5	-2.170	-4.319	-3.828	-.243	.111	-.041	-.075
6	*000.000	*000.000	*000.000	-.113	-.091	-.058	-.017
7	*000.000	*000.000	*000.000	-.186	.434	-.136	-.151
8	*000.000	*000.000	*000.000	-1.448	-.648	-.064	-.141
9	*000.000	*000.000	*000.000	-2.710	-1.422	-.181	-.236
10	-1.078	-1.031	-1.242	-2.124	-1.062	-.173	-.142
11	-1.113	-1.479	*000.000	-1.406	-.756	-.219	-.266
12	-1.020	-1.015	-.803	-.806	-.468	-.189	-.237
13	-.846	-.864	-.857	-.767	-.351	-.163	-.298
14	-.774	-.824	-.809	-.472	-.264	-.226	-.240
15	-.836	-1.393	-.297	-.064	.063	.066	-.165
16	-1.293	-1.593	-1.767	-1.512	-.984	-.621	-.510
17	-1.535	-1.995	-2.164	-1.521	-1.307	-.629	-.516
18	-1.447	-2.069	-2.645	-1.625	-1.390	-.748	-.812
19	-.973	-1.465	-2.306	-1.605	-1.435	-.583	-.736
20	-.960	-1.278	-1.777	-1.295	-1.093	-.649	-.620
21	-.643	-.784	-1.465	-.942	-1.085	-.602	-.781
22	-.748	-.774	-.877	-.524	-.454	-.411	-.402
23	-.735	-.423	-.374	-.333	-.372	-.393	-.376
24	-.444	-.329	-.261	-.219	-.214	-.266	-.226
25	-4.211	-3.948	-3.075	.817	.620	-.082	.018
26	-.978	-.534	.251	-.181	*000.000	-.031	-.053
27	-.455	.186	.841	-.008	-.091	-.059	-.026
28	-.104	.332	.609	.711	.097	.011	.081
29	-.264	.179	.380	.494	.416	.147	.165
30	-.431	.482	.425	.699	.546	.480	-.074
31	.269	.683	.542	1.044	.969	.782	.001
32	.128	.578	.649	1.088	1.039	.848	.167
33	-.058	.193	.448	.705	.596	.376	.044

Table 28.- Continued.

(c) $C_{T,s} = 0.60$, $q_s = 21.54$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.793	.441	-.147	-.019	.805	.874	.760
2	.115	-.519	-.810	.586	1.229	1.242	.983
3	-.112	-.650	-.728	.703	1.185	1.150	.852
4	-.474	-1.128	-1.255	.742	1.102	.985	.601
5	-.785	-1.326	-1.261	.642	.818	.636	.379
6	.000,000	.000,000	.000,000	-.145	.025	.049	-.008
7	.000,000	.000,000	.000,000	.445	.633	.566	.356
8	.000,000	.000,000	.000,000	-.331	-.405	-.495	-.572
9	.000,000	.000,000	.000,000	-1.256	-1.357	-1.341	-1.205
10	-.724	-1.176	-1.331	-1.210	-1.199	-1.161	-1.032
11	-.800	-1.226	.000,000	-1.161	-1.207	-.992	-.890
12	-1.239	-.907	-.908	-.875	-.844	-.675	-.601
13	-.796	-.995	-.944	-.758	-.682	-.600	-.525
14	-.955	-.993	-.900	-.654	-.594	-.491	-.422
15	-.414	-.184	-.258	-.034	-.091	-.023	-.068
16	-2.041	-2.169	-1.899	-1.005	-.831	-.684	-.500
17	-3.058	-3.107	-2.609	-1.380	-1.000	-.801	-.701
18	-3.336	-3.199	-3.005	-1.673	-1.228	-.952	-.815
19	-3.350	-2.972	-2.628	-1.254	-.746	-1.082	-.673
20	-2.645	-2.002	-1.806	-.436	-.411	-.281	-.267
21	-2.411	-1.312	-.832	-.364	-.207	-.212	-.212
22	-1.787	-.485	-.469	-.347	-.277	-.238	-.219
23	-.995	-.415	-.409	-.334	-.236	-.256	-.271
24	-.888	-.408	-.280	-.315	-.241	-.224	-.281
25	.974	1.054	.434	-.314	.062	.023	.070
26	.657	.955	.582	-.261	.000.000	-.026	.231
27	.101	.382	.319	-.102	.012	.045	.026
28	.060	.256	.371	-.077	.043	.077	.056
29	.187	.479	.355	.136	.044	.146	.155
30	.315	.800	.509	.191	.051	.125	-.023
31	.709	1.009	.852	.061	.083	.094	.008
32	.742	.967	.759	.393	.114	.103	.111
33	.559	.791	.624	.775	.254	.183	.234

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.518	-.079	-.967	.454	1.048	1.070	.889
2	-.318	-1.295	-1.837	.488	1.238	1.205	.855
3	-.642	-1.455	-1.644	.591	1.146	1.110	.783
4	-.895	-1.673	-1.811	.587	.953	.738	.413
5	-1.144	-1.899	-1.867	.362	.592	.381	.140
6	.000,000	.000.000	.000,000	.076	.181	.168	.138
7	.000,000	.000,000	.000,000	.232	.358	.014	-.124
8	.000,000	.000,000	.000,000	-.633	-.766	-.864	-.915
9	.000,000	.000,000	.000,000	-1.555	-1.937	-1.854	-1.725
10	-1.018	-1.602	-1.720	-1.576	-1.681	-1.643	-1.441
11	-.843	-1.363	.000,000	-1.302	-1.386	-1.191	-1.035
12	-1.330	-.994	-.964	-.905	-.995	-.793	-.750
13	-.847	-1.017	-.928	-.783	-.794	-.691	-.687
14	-1.108	-1.074	-.943	-.729	-.749	-.752	-.635
15	-.636	-.348	-.290	-.067	-.087	-.090	-.040
16	-2.108	-2.215	-1.827	-1.144	-1.060	-1.054	-.856
17	-3.086	-2.979	-2.394	-1.735	-1.402	-1.639	-1.329
18	-3.625	-3.210	-2.811	-2.210	-1.764	-1.809	-1.405
19	-3.678	-3.025	-2.643	-1.927	-1.448	-1.514	-1.128
20	-3.194	-2.534	-2.352	-.987	-.600	-1.017	-.975
21	-2.278	-1.401	-1.141	-.450	-.322	-.434	-.508
22	-1.807	-.636	-.597	-.360	-.287	-.356	-.339
23	-1.240	-.588	-.502	-.353	-.286	-.325	-.388
24	-.969	-.530	-.443	-.265	-.221	-.259	-.219
25	1.050	.845	-.234	.114	.303	.349	.295
26	.851	1.029	.479	.039	.000.000	.143	.019
27	.289	.626	.591	.010	.107	.164	.102
28	.132	.400	.486	.212	.030	.095	.141
29	.179	.496	.462	.459	.360	.256	.102
30	.256	.766	.520	.475	.480	.357	.060
31	.657	1.012	.904	.571	.484	.511	.242
32	.688	.946	.789	.851	.709	.786	.632
33	.550	.695	.568	.852	.630	.879	.666

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.012	-1.324	-2.860	.685	1.169	1.216	.907
2	-.941	-2.298	-3.174	.617	1.148	1.033	.604
3	-1.274	-2.694	-3.324	.480	.977	.852	.299
4	-1.442	-2.612	-3.126	.305	.695	.514	.039
5	-1.578	-2.672	-2.755	.203	.272	.083	-.234
6	.000,000	.000.000	.000,000	.043	.139	.102	-.006
7	.000,000	.000,000	.000,000	-.065	-.113	-.269	-.398
8	.000,000	.000,000	.000,000	-.964	-1.131	-1.285	-1.310
9	.000,000	.000,000	.000,000	-1.987	-2.334	-2.264	-2.020
10	-1.135	-1.743	-1.911	-1.771	-1.958	-1.884	-1.614
11	-.971	-1.461	.000,000	-1.385	-1.595	-1.363	-1.234
12	-1.478	-1.113	-1.053	-1.018	-1.159	-.967	-.935
13	-1.073	-1.093	-.975	-.829	-.912	-.844	-.765
14	-1.536	-1.283	-1.061	-.890	-.895	-.902	-.753
15	-.905	-.437	-.366	-.104	-.106	-.081	-.073
16	-2.599	-2.554	-2.111	-1.443	-1.598	-1.632	-1.093
17	-4.069	-3.739	-2.952	-2.371	-2.184	-2.189	-1.676
18	-4.268	-4.157	-3.394	-2.720	-2.377	-2.545	-1.954
19	-4.258	-4.131	-3.400	-2.853	-2.129	-2.303	-1.820
20	-2.651	-2.729	-2.225	-1.501	-1.152	-1.325	-1.209
21	-2.439	-1.912	-1.830	-.605	-.444	-.570	-.844
22	-1.772	-1.122	-1.079	-.374	-.320	-.356	-.506
23	-1.179	-.719	-.405	-.297	-.307	-.316	-.404
24	-1.261	-.737	-.332	-.267	-.260	-.334	-.355
25	.966	.437	-.996	.418	.539	.542	.386
26	.938	1.036	.533	.023	.000.000	.128	-.012
27	.548	.929	.774	.084	.156	.137	-.036
28	.244	.596	.685	.648	.128	.194	.221
29	.142	.583	.534	.633	.594	.542	.383
30	.101	.762	.646	.654	.619	.578	-.043
31	.464	.970	.857	.997	.774	.793	.128
32	.632	.971	.759	1.060	.951	.855	.818
33	.512	.757	.632	.919	.777	.949	.602

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.604	-2.671	-4.579	.786	1.252	1.273	.616
2	-1.788	-3.826	-5.063	.498	1.038	.938	.141
3	-2.007	-3.752	-4.774	.346	.767	.626	-.095
4	-2.081	-3.655	-4.529	.079	.406	.207	-.385
5	-2.038	-3.329	-3.689	-.235	-.059	-.276	-.654
6	.000,000	.000.000	.000,000	.024	.055	.042	-.092
7	.000,000	.000,000	.000,000	-.527	-.496	-.615	-.784
8	.000,000	.000,000	.000,000	-1.510	-1.637	-1.722	-1.725
9	.000,000	.000,000	.000,000	-2.553	-2.982	-2.849	-2.563
10	-1.385	-2.108	-2.397	-2.291	-2.467	-2.342	-2.052
11	-1.157	-1.624	.000,000	-1.638	-1.878	-1.593	-1.447
12	-1.686	-1.241	-1.135	-1.141	-1.305	-1.100	-1.050
13	-1.242	-1.233	-1.050	-.984	-1.118	-.931	-.874
14	-1.797	-1.270	-.991	-.966	-1.116	-.939	-.802
15	-1.187	-.542	-.299	-.043	-.218	-.170	-.101
16	-2.930	-2.489	-1.748	-1.765	-2.066	-1.940	-1.270
17	-3.877	-3.620	-2.138	-2.480	-2.517	-2.227	-1.707
18	-4.084	-4.128	-2.815	-2.813	-3.211	-3.003	-2.305
19	-4.177	-3.953	-2.269	-2.869	-2.810	-2.900	-1.932
20	-2.871	-3.020	-1.996	-2.452	-1.745	-1.892	-1.751
21	-2.509	-2.575	-1.354	-1.426	-.938	-.937	-1.039
22	-2.424	-1.856	-.556	-.716	-.533	-.459	-.591
23	-1.520	-.844	-.364	-.425	-.361	-.364	-.537
24	-1.549	-.507	-.368	-.341	-.282	-.377	-.411
25	.734	-.230	-1.909	.690	.735	.749	.303
26	1.079	1.023	.438	-.225	.000.000	.123	-.060
27	.638	.965	.846	.278	.101	.114	-.099
28	.309	.705	.794	.784	.285	.173	.357
29	.107	.632	.656	.729	.731	.593	.367
30	-.035	.800	.774	.876	.841	.787	.096
31	.369	1.040	.971	1.160	1.151	1.008	.239
32	.562	1.017	.902	1.139	1.222	1.091	.724
33	.448	.728	.678	.896	.952	.792	.557

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.255	-3.742	-5.650	.858	1.235	1.180	-.273
2	-2.474	-5.236	-6.935	.337	.929	.682	-.363
3	-2.609	-5.103	-6.354	.064	.512	.445	-.618
4	-2.723	-4.760	-5.686	-.231	.068	-.145	-.943
5	-2.368	-3.876	-4.387	-.431	-.341	-.591	-1.089
6	.000,000	.000.000	.000,000	.039	.006	-.034	-.221
7	.000,000	.000,000	.000,000	-.768	-.692	-.771	-1.112
8	.000,000	.000,000	.000,000	-1.727	-1.851	-1.883	-1.956
9	.000,000	.000,000	.000,000	-2.902	-3.253	-2.947	-2.623
10	-1.515	-2.327	-2.634	-2.501	-2.621	-2.346	-2.004
11	-1.268	-1.811	.000,000	-1.826	-2.022	-1.643	-1.429
12	-1.831	-1.384	-1.223	-1.262	-1.436	-1.099	-1.030
13	-1.575	-1.379	-1.094	-1.054	-1.217	-.946	-.918
14	-2.106	-1.355	-1.011	-.952	-1.160	-.967	-.873
15	-1.404	-.630	-.204	-.053	-.263	-.196	-.163
16	-3.379	-4.254	-2.845	-2.777	-3.152	-2.626	-2.050
17	.000,000	.000.000	.000,000	.000.000	.000.000	.000,000	.000,000
18	-3.583	-4.040	-2.773	-3.214	-3.183	-2.936	-2.342
19	-3.339	-4.072	-2.607	-3.187	-3.195	-2.997	-2.155
20	-2.623	-3.447	-1.790	-2.358	-2.242	-2.248	-2.073
21	.091	.670	.750	.844	.824	.679	.414
22	-2.097	-1.452	-.819	-.516	-.486	-.790	-.944
23	-1.667	-.894	-.472	-.430	-.455	-.397	-.590
24	-1.530	-.828	-.400	-.417	-.298	-.373	-.414
25	.313	-1.292	-3.018	1.006	.970	.890	.115
26	.999	.780	.242	-.176	.000.000	.056	-.022
27	.778	1.020	.859	.527	.049	.056	.095
28	.381	.765	.851	.866	.895	.492	.405
29	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000,000
30	-.136	.827	.853	1.079	.984	.868	-.099
31	.333	.994	.997	1.199	1.320	1.101	.270
32	.531	1.001	.929	1.222	1.305	1.105	.732
33	.477	.771	.728	.963	1.008	.787	.266

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.961	-4.785	-6.886	.861	1.220	1.216	-.794
2	-3.288	-6.354	-8.114	.094	.647	.508	-1.131
3	-3.259	-6.022	-7.268	-.138	.269	.171	-1.286
4	-3.106	-5.244	-6.130	-.487	-.181	-.268	-1.387
5	-2.691	-4.442	-4.886	-.660	-.627	-.749	-1.253
6	.000,000	.000.000	.000,000	.115	-.009	.018	-.139
7	.000,000	.000,000	.000,000	-1.060	-.864	-.771	-1.172
8	.000,000	.000,000	.000,000	-2.238	-2.191	-1.928	-2.024
9	.000,000	.000,000	.000,000	-3.312	-3.442	-2.960	-2.540
10	-1.737	-2.528	-2.839	-2.785	-2.706	-2.141	-1.803
11	-1.480	-1.944	.000,000	-2.043	-2.094	-1.383	-1.196
12	-1.948	-1.503	-1.348	-1.464	-1.600	-.997	-.951
13	-1.844	-1.325	-1.088	-1.100	-1.131	-.751	-.769
14	-2.505	-1.481	-1.182	-1.119	-1.250	-.902	-.852
15	-1.684	-.628	-.295	-.045	-.181	-.202	-.202
16	-3.116	-2.959	-2.098	-2.250	-2.504	-2.189	-1.430
17	-3.564	-3.997	-2.612	-2.847	-3.159	-2.301	-1.869
18	-3.523	-4.503	-2.992	-3.531	-3.838	-3.271	-2.576
19	-3.096	-4.261	-2.534	-3.273	-3.420	-3.112	-2.323
20	-2.691	-3.567	-2.150	-2.611	-2.377	-2.327	-2.228
21	-2.221	-2.376	-1.390	-1.200	-1.252	-1.649	-1.402
22	-2.103	-1.378	-.784	-.474	-.576	-1.234	-1.260
23	-1.745	-.750	-.463	-.433	-.417	-.428	-.681
24	-1.863	-.534	-.443	-.457	-.564	-.524	-.546
25	-.180	-2.322	-3.934	1.160	1.090	.949	-.059
26	1.041	.638	.061	-.421	.000.000	.097	-.114
27	.796	.985	.806	.739	-.029	.166	.210
28	.399	.877	.954	.975	1.130	.562	.337
29	.054	.740	.799	.892	.833	.643	.405
30	-.323	.848	.893	1.019	.937	.884	-.095
31	.278	1.081	.970	1.309	1.357	1.228	.136
32	.464	1.016	.919	1.265	1.288	1.171	.664
33	.403	.756	.651	.918	.947	.704	.141

Table 28.- Continued.

(c) $C_{T,s} = 0.60$, $q_s = 21.54$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.843	-6.548	-8.518	.742	1.179	1.076	-1.285
2	-3.962	-7.318	-8.741	-.150	.432	.294	-1.609
3	-3.917	-7.046	-8.375	-.406	.034	.014	-1.548
4	-3.680	-6.164	-6.901	-.681	-.369	-.490	-1.414
5	-2.930	-4.734	-5.044	-.842	-.729	-.905	-1.476
6	*000.000	*000.000	*000.000	.062	.075	.107	-.247
7	*000.000	*000.000	*000.000	-1.422	-1.078	-.837	-1.458
8	*000.000	*000.000	*000.000	-2.699	-2.502	-1.936	-2.076
9	*000.000	*000.000	*000.000	-4.158	-3.959	-3.047	-2.504
10	-1.821	-2.685	-2.867	-3.025	-2.818	-2.022	-1.617
11	-1.485	-1.976	*000.000	-2.102	-2.069	-1.107	-1.017
12	-1.786	-1.394	-1.181	-1.337	-1.313	-.731	-.799
13	-2.088	-1.417	-1.150	-1.171	-1.101	-.739	-.718
14	-1.637	-.631	-.203	-.117	-.112	-.193	-.233
15	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
16	-2.966	-2.926	-2.113	-2.475	-2.607	-2.136	-1.329
17	-3.122	-3.985	-2.586	-3.107	-3.162	-2.342	-1.888
18	-3.237	-4.406	-3.009	-3.545	-3.529	-2.872	-2.244
19	-2.600	-4.396	-2.745	-3.446	-3.639	-3.164	-2.294
20	-2.650	-3.365	-2.044	-2.553	-2.904	-2.390	-2.141
21	-2.685	-2.475	-1.496	-1.727	-2.048	-1.925	-1.693
22	-2.100	-1.384	-.780	-.607	-.786	-1.111	-1.282
23	-1.943	-.709	-.452	-.472	-.501	-.509	-1.028
24	-1.820	-.471	-.507	-.483	-.502	-.471	-.604
25	-.454	-2.911	-4.739	1.243	1.212	1.042	-.307
26	.999	.463	-.050	-.181	*000.000	.096	-.100
27	.977	1.152	.875	1.186	.119	.208	.315
28	.497	.979	1.084	.988	1.096	.794	.300
29	.057	.705	.788	.766	.735	.497	.292
30	-.393	.892	.923	1.009	.925	.887	-.171
31	.218	1.140	.980	1.299	1.391	1.295	.143
32	.460	1.056	.943	1.227	1.322	1.151	.511
33	.377	.797	.747	.925	.968	.642	-.052

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-3.596	-7.627	-9.565	.568	.985	.849	-1.630
2	-4.594	-8.289	-9.879	-.373	.201	-.001	-1.710
3	-4.587	-7.958	-9.014	-.633	-.226	-.266	-1.610
4	-4.084	-6.654	-7.502	-.979	-.642	-.732	-1.528
5	-3.288	-5.161	-5.522	-1.157	-1.033	-1.082	-1.448
6	*000.000	*000.000	*000.000	.157	.071	-.007	-.193
7	*000.000	*000.000	*000.000	-1.436	-1.134	-.752	-1.195
8	*000.000	*000.000	*000.000	-2.724	-2.500	-1.805	-1.791
9	*000.000	*000.000	*000.000	-4.113	-3.817	-2.607	-2.027
10	-1.867	-2.688	-2.815	-3.006	-2.631	-1.671	-1.193
11	-1.619	-1.988	*000.000	-2.118	-2.009	-.996	-.779
12	-1.762	-1.389	-1.193	-1.326	-1.291	-.698	-.670
13	-2.172	-1.498	-1.265	-1.169	-1.026	-.649	-.577
14	-2.025	-1.446	-1.194	-1.191	-1.033	-.706	-.618
15	-1.479	-.956	-.250	-.122	-.153	-.079	-.166
16	-2.662	-2.791	-2.090	-2.396	-2.376	-1.848	-1.178
17	-2.719	-3.931	-2.735	-3.277	-3.501	-2.347	-1.672
18	-2.623	-3.688	-2.733	-3.468	-3.287	-2.756	-2.000
19	-2.558	-3.643	-2.539	-3.505	-3.659	-2.784	-2.123
20	-2.183	-2.909	-2.047	-2.656	-2.954	-2.369	-1.849
21	-1.994	-2.090	-1.516	-1.598	-2.333	-1.719	-1.330
22	-1.980	-1.276	-.806	-.612	-.974	-1.398	-1.239
23	-1.800	-.543	-.526	-.477	-.494	-.442	-.824
24	-1.519	-.493	-.484	-.512	-.399	-.270	-.537
25	-1.345	-4.569	-6.528	1.487	1.419	1.156	-.898
26	.797	.240	-.306	-.017	*000.000	.148	-.050
27	.942	1.033	.814	1.249	.256	.235	.406
28	.387	.944	.991	.928	.981	.609	.323
29	-.007	.756	.807	.859	.725	.490	.404
30	-.517	.882	.845	1.040	.836	.778	-.008
31	.242	1.130	.991	1.284	1.318	1.226	.112
32	.396	1.062	.882	1.222	1.232	1.062	.447
33	.350	.789	.708	.981	.898	.580	.069

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-4.803	-9.303	-11.041	.382	.924	.368	-2.434
2	-5.283	-9.225	-10.630	-.692	-.092	-.483	-2.352
3	-5.325	-8.866	-9.897	-1.026	-.598	-.845	-1.784
4	-4.623	-7.205	-7.846	-1.267	-.880	-1.046	-1.469
5	-3.721	-5.820	-5.934	-1.371	-1.208	-1.307	-1.296
6	*000.000	*000.000	*000.000	.077	.053	-.048	-.332
7	*000.000	*000.000	*000.000	-1.533	-1.218	-.793	-1.061
8	*000.000	*000.000	*000.000	-2.924	-2.676	-1.830	-1.500
9	*000.000	*000.000	*000.000	-4.029	-3.629	-2.225	-1.361
10	-1.979	-2.887	-2.903	-3.087	-2.629	-1.528	-.936
11	-1.610	-1.965	*000.000	-2.033	-1.822	-.928	-.739
12	-1.779	-1.450	-1.225	-1.371	-1.217	-.642	-.610
13	-1.538	-1.285	-1.117	-1.136	-.830	-.619	-.519
14	-1.800	-1.437	-1.262	-1.298	-1.096	-.769	-.696
15	-1.480	-.705	-.137	-.175	-.126	-.005	-.259
16	-2.024	-2.483	-2.025	-2.322	-2.074	-1.785	-1.203
17	-2.284	-3.354	-2.563	-3.218	-2.630	-2.046	-1.606
18	-2.056	-3.177	-2.648	-3.625	-2.942	-2.477	-1.886
19	-2.050	-2.861	-2.430	-3.431	-3.375	-2.421	-1.756
20	-1.693	-2.262	-2.031	-2.985	-2.622	-1.890	-1.522
21	-1.586	-1.723	-1.533	-2.040	-2.042	-1.802	-1.423
22	-1.619	-1.191	-1.005	-1.469	-1.834	-1.782	-1.444
23	-1.531	-.605	-.489	-.476	-.602	-.503	-.788
24	-1.131	-.491	-.444	-.386	-.198	-.354	-.364
25	-1.931	-5.066	-6.665	1.208	1.235	.553	-1.283
26	.688	.120	-.581	-.029	*000.000	.178	-.087
27	.677	.880	.537	1.085	.277	.323	.290
28	.288	.886	.948	.817	.898	.406	.308
29	-.057	.679	.834	.799	.699	.405	.346
30	-.501	.952	.879	1.044	.823	.719	-.105
31	.285	.593	.777	1.080	.954	.610	.112
32	.385	.975	.909	1.308	1.271	1.092	.449
33	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-4.528	-9.979	-11.618	.119	.790	-.654	-2.501
2	-5.845	-10.748	-11.989	-1.116	-.310	-1.179	-1.722
3	-5.310	-9.650	-10.495	-1.228	-.643	-1.162	-1.613
4	-4.838	-7.977	-8.333	-1.527	-1.005	-1.194	-1.199
5	-3.682	-6.152	-6.197	-1.613	-1.318	-1.245	-1.057
6	*000.000	*000.000	*000.000	.160	.096	.058	-.242
7	*000.000	*000.000	*000.000	-1.846	-1.337	-.815	-1.164
8	*000.000	*000.000	*000.000	-3.198	-2.650	-1.434	-1.048
9	*000.000	*000.000	*000.000	-4.320	-3.787	-2.126	-1.054
10	-1.893	-2.933	-2.929	-3.210	-2.650	-1.316	-.658
11	.369	1.185	*000.000	1.315	1.314	1.101	.147
12	-1.656	-1.322	-1.187	-1.357	-1.083	-.449	-.404
13	-1.497	-1.228	-1.133	-1.164	-.977	-.539	-.451
14	-1.310	-1.232	-1.273	-1.268	-1.109	-.582	-.439
15	-1.265	-.620	-.224	-.231	-.201	-.037	-.127
16	-2.109	-2.423	-2.103	-2.557	-2.612	-1.584	-.918
17	-1.960	-2.874	-2.557	-2.998	-2.842	-1.937	-1.338
18	-2.643	-3.193	-3.023	-3.593	-3.261	-2.754	-1.703
19	-1.816	-2.753	-2.711	-3.603	-3.236	-2.649	-1.322
20	-1.424	-1.900	-2.014	-3.316	-3.071	-1.618	-1.250
21	-1.357	-1.617	-1.699	-1.499	-2.381	-1.436	-1.295
22	-1.245	-.990	-.904	-1.010	-1.334	-.869	-.976
23	-1.389	-.573	-.449	-.431	-.625	-.560	-.763
24	-.923	-.510	-.420	-.368	-.161	-.150	-.345
25	-2.284	-5.975	-7.388	1.220	1.370	-.203	-1.465
26	.288	-.122	-.596	-.015	*000.000	.263	-.078
27	.384	.874	.668	1.255	.484	.300	.305
28	.205	.927	1.066	.913	.957	.415	.410
29	-.051	.614	.829	.781	.648	.455	.310
30	-.358	.911	.808	.942	.739	.785	.021
31	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
32	.371	.746	.842	1.248	1.199	.923	.490
33	.284	.431	.841	1.075	.838	.609	.191

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-6.618	-12.090	-12.829	-.132	.658	-.674	-2.414
2	-6.205	-11.538	-12.138	-1.404	-.347	-.906	-1.209
3	-5.647	-10.557	-10.749	-1.416	-.829	-1.048	-1.153
4	-4.873	-8.773	-9.095	-1.812	-1.244	-1.485	-1.135
5	-3.508	-6.420	-6.380	-1.908	-1.592	-1.268	-.894
6	*000.000	*000.000	*000.000	.096	-.019	-.053	-.507
7	*000.000	*000.000	*000.000	-1.961	-1.344	-.778	-1.108
8	*000.000	*000.000	*000.000	-3.434	-2.916	-1.571	-1.111
9	*000.000	*000.000	*000.000	-4.762	-4.217	-2.283	-1.122
10	-1.758	-3.084	-3.199	-3.365	-2.780	-1.370	-.717
11	-1.240	-1.837	*000.000	-2.169	-1.957	-.697	-.492
12	-1.720	-1.322	-1.228	-1.398	-1.201	-.506	-.350
13	-1.436	-1.188	-1.195	-1.138	-1.059	-.474	-.420
14	-1.132	-1.142	-1.225	-1.251	-1.156	-.622	-.403
15	-1.364	-.532	-.270	-.173	-.289	-.145	-.148
16	-1.789	-1.976	-2.077	-2.617	-2.539	-1.407	-.818
17	-1.753	-2.201	-2.434	-2.957	-2.735	-1.434	-1.162
18	-1.526	-2.317	-2.795	-3.754	-3.470	-1.878	-1.298
19	-1.425	-2.002	-2.553	-3.478	-3.198	-1.492	-1.183
20	-1.181	-1.708	-2.208	-3.226	-3.070	-1.527	-1.363
21	-1.259	-1.343	-1.680	-1.723	-2.095	-1.505	-1.212
22	-.991	-1.028	-1.036	-.607	-1.185	-.972	-.976
23	-1.136	-.579	-.484	-.344	-.505	-.423	-.472
24	-.758	-.527	-.445	-.341	-.221	-.322	-.416
25	-4.259	-6.929	-8.031	1.172	1.382	-.584	-1.666
26	-.635	-.382	-.576	.213	*000.000	.252	-.153
27	-.052	.787	.767	1.370	.593	.276	.329
28	.118	.647	1.027	.844	.844	.246	.338
29	-.062	.456	.641	.721	.523	.408	.384
30	-.231	.788	.664	.937	.581	.587	.091
31	.322	.986	.810	1.352	1.343	.904	.212
32	.294	.737	.839	1.264	1.157	.763	.389
33	.188	.339	.743	.964	.691	.448	.169

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.311	-3.183	-3.546	-.140	.491	-1.665	-2.298
2	-1.933	-2.082	-1.694	-1.141	-.533	-1.398	-1.444
3	-1.634	-1.581	-1.122	-1.595	-.997	-1.648	-1.251
4	-1.175	-.863	-.712	-1.671	-1.391	-1.612	-1.231
5	-.773	-.717	-.682	-1.402	-1.353	-1.245	-1.318
6	*000.000	*000.000	*000.000	.173	-.021	-.106	-.524
7	*000.000	*000.000	*000.000	-1.595	-1.350	-.973	-1.303
8	*000.000	*000.000	*000.000	-2.795	-2.699	-1.494	-1.073
9	*000.000	*000.000	*000.000	-3.794	-3.882	-1.943	-1.065
10	-.782	-.714	-.699	-2.828	-2.792	-1.349	-.871
11	-.790	-.725	*000.000	-1.779	-1.914	-.785	-.685
12	-.807	-.787	-.742	-1.057	-1.184	-.595	-.520
13	-.584	-.585	-.542	-.955	-1.018	-.595	-.479
14	-.680	-.675	-.681	-1.091	-1.124	-.629	-.507
15	-.675	-.481	-.089	-.205	-.255	-.041	-.074
16	-.989	-1.167	-1.035	-2.071	-2.224	-1.304	-.880
17	-1.085	-1.406	-1.228	-2.568	-3.098	-1.537	-1.140
18	-.948	-1.049	-.974	-2.718	-3.228	-1.419	-1.125
19	-.847	-.951	-.830	-2.952	-2.665	-2.114	-1.155
20	-.820	-.956	-.945	-2.489	-2.052	-.864	-.979
21	-.734	-.810	-.701	-1.518	-1.735	-.881	-.901
22	-.661	-.774	-.737	-1.265	-1.025	-.615	-.860
23	-.706	-.713	-.646	-.466	-.485	-.362	-.487
24	-.596	-.589	-.557	-.435	-.288	-.262	-.284
25	-1.939	-2.224	-2.788	1.178	1.466	-.735	-1.881
26	-.185	.356	.428	.211	*000.000	.208	-.211
27	.020	.709	1.119	1.308	.717	.227	.236
28	.184	.551	1.032	.822	.813	.409	.338
29	.024	.372	.586	.600	.467	.402	.355
30	-.145	.819	.710	.948	.626	.593	-.039
31	.425	.977	.861	1.371	1.326	.934	.304
32	.314	.714	.796	1.253	1.113	.715	.454
33	.143	.238	.537	.687	.559	.388	.107

Table 28. - Continued.

(d) $C_{T,S} = 0.30$, $q_s = 19.17$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.738	.485	.180	.550	1.007	.976	.975
2	-.037	-.621	-.940	.702	1.245	1.193	1.080
3	-.277	-.889	-1.044	.600	1.098	1.036	.922
4	-.631	-1.298	-1.419	.448	.856	.745	.630
5	-.952	-1.665	-1.295	.212	.471	.353	.353
6	*000.000	*000.000	*000.000	.115	.169	-.037	-.016
7	*000.000	*000.000	*000.000	-.207	.227	.342	.173
8	*000.000	*000.000	*000.000	-1.019	-.885	-.846	-.864
9	*000.000	*000.000	*000.000	-2.061	-2.028	-1.910	-1.840
10	-1.032	-1.527	-1.908	-2.132	-2.045	-1.847	-1.730
11	-.948	-1.370	*000.000	-1.492	-1.541	-1.327	-1.225
12	-1.522	-1.157	-1.199	-1.139	-1.218	-1.042	-.929
13	-1.059	-1.383	-1.338	-.962	-.966	-.904	-.783
14	-1.243	-1.269	-1.242	-.856	-.867	-.777	-.683
15	-.558	-.023	-.337	-.136	-.138	-.126	-.149
16	-2.369	-2.529	-2.242	-.954	-1.084	-1.083	-.871
17	-3.429	-3.554	-3.146	-1.544	-1.450	-1.559	-1.339
18	-4.455	-4.717	-4.212	-1.890	-1.537	-1.719	-1.661
19	-4.131	-3.712	-3.228	-1.517	-1.115	-1.723	-1.341
20	-3.448	-2.590	-2.416	-.570	-.586	-.398	-.474
21	-2.526	-1.812	-1.948	-.501	-.472	-.404	-.380
22	-1.520	-.672	-.890	-.335	-.335	-.441	-.311
23	-1.190	-.753	-.540	-.342	-.384	-.326	-.309
24	-1.313	-.942	-.081	-.473	-.400	-.363	-.368
25	1.008	1.104	.679	.126	.250	.104	.137
26	.690	.990	.693	.115	*000.000	0.	.448
27	.082	.390	.271	.026	.067	.010	-.076
28	-.002	.181	.177	.082	.070	.044	.018
29	.108	.461	.375	.227	.209	.186	.284
30	.224	.755	.511	.166	.255	.210	.092
31	.720	1.127	.995	.355	.280	.320	.394
32	.705	1.016	.827	.278	.277	.466	.605
33	.483	.759	.690	.293	.336	.768	.863

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.106	-.857	-1.631	.671	1.231	1.240	1.088
2	-.789	-1.946	-2.428	.602	1.158	1.095	.964
3	-1.109	-2.283	-2.442	.314	.955	.887	.681
4	-1.415	-2.471	-2.496	.150	.616	.498	.259
5	-1.512	-2.474	-1.880	-.168	.083	-.005	-.097
6	*000.000	*000.000	*000.000	-.005	.056	.040	-.092
7	*000.000	*000.000	*000.000	-.653	-.460	-.379	-.423
8	*000.000	*000.000	*000.000	-1.645	-1.593	-1.474	-1.615
9	*000.000	*000.000	*000.000	-3.098	-3.161	-2.913	-2.792
10	-1.263	-1.900	-2.601	-2.617	-2.566	-2.364	-2.326
11	-1.222	-1.765	*000.000	-1.895	-2.030	-1.756	-1.625
12	-1.649	-1.338	-1.257	-1.285	-1.426	-1.235	-1.139
13	-1.259	-1.433	-1.204	-1.009	-1.109	-1.006	-.917
14	-1.598	-1.494	-1.183	-.902	-1.059	-.935	-.884
15	-1.094	-.124	-.412	-.150	-.232	-.185	-.334
16	-4.676	-4.681	-3.179	-2.152	-2.106	-2.305	-1.888
17	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
18	-5.262	-4.804	-3.224	-2.288	-2.281	-2.330	-1.875
19	-4.917	-4.376	-2.553	-2.258	-2.016	-2.468	-1.715
20	-3.643	-2.590	-1.681	-.595	-.498	-.445	-.559
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	-3.113	-2.227	-1.208	-.500	-.486	-.464	-.605
23	-1.602	-.801	-.389	-.370	-.371	-.393	-.378
24	-1.619	-.177	-.253	-.348	-.355	-.408	-.436
25	.951	.834	.126	.420	.558	.507	.527
26	.857	1.065	.650	.050	*000.000	.053	.305
27	.338	.677	.528	.041	.199	.131	.056
28	.127	.353	.438	.337	.157	.229	.420
29	.117	.462	.428	.530	.521	.594	.462
30	.013	.803	.619	.645	.663	.667	.169
31	.459	1.020	.922	.760	.665	.696	.511
32	.609	.982	.710	.942	.754	.860	.853
33	.438	.789	.549	.853	.682	.893	.863

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.518	-1.872	-3.007	.725	1.315	1.216	.945
2	-1.393	-2.941	-3.546	.237	.896	.658	.398
3	-1.803	-3.364	-3.606	.029	.611	.401	.076
4	-2.294	-3.934	-3.993	-.402	.144	-.065	-.228
5	-1.892	-3.078	-2.240	-.574	-.284	-.489	-.627
6	*000.000	*000.000	*000.000	-.135	.009	.001	-.124
7	*000.000	*000.000	*000.000	-1.117	-.868	-.951	-1.038
8	*000.000	*000.000	*000.000	-2.231	-2.129	-2.192	-2.284
9	*000.000	*000.000	*000.000	-3.570	-3.697	-3.486	-3.427
10	-1.479	-2.223	-3.265	-3.060	-3.009	-2.802	-2.736
11	-1.211	-1.790	*000.000	-2.054	-2.257	-1.967	-1.909
12	-1.695	-1.333	-1.274	-1.404	-1.646	-1.423	-1.406
13	-1.289	-1.374	-1.159	-1.175	-1.385	-1.234	-1.194
14	-2.035	-1.501	-1.099	-1.190	-1.360	-1.238	-1.115
15	-1.196	-.200	-.251	-.220	-.358	-.281	-.259
16	-2.705	-2.772	-1.900	-2.097	-2.427	-2.204	-1.632
17	-3.199	-3.717	-2.430	-2.701	-2.706	-2.428	-2.093
18	-3.717	-4.212	-2.792	-3.025	-3.236	-2.793	-2.530
19	-2.734	-3.866	-2.319	-2.876	-2.741	-2.919	-2.250
20	-2.793	-3.124	-1.661	-2.186	-1.576	-1.878	-1.875
21	-2.220	-2.193	-.681	-.785	-1.071	-1.098	-1.202
22	-1.711	-.984	-.557	-.666	-.495	-.449	-.746
23	-1.504	-.746	-.466	-.431	-.389	-.496	-.657
24	-1.342	-.964	-.354	-.402	-.455	-.371	-.510
25	.696	.074	-1.236	.754	.856	.922	.869
26	.929	1.006	.462	-.313	*000.000	.109	.251
27	.576	.933	.711	.361	.198	.140	.191
28	.190	.540	.623	.687	.491	.639	.557
29	.131	.588	.612	.749	.847	.758	.591
30	.012	.821	.724	.920	.923	.870	.018
31	.451	1.074	1.010	1.086	1.168	1.090	.747
32	.580	.959	.828	1.141	1.181	1.058	.982
33	.412	.718	.584	.880	.910	.805	.624

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.504	-3.875	-5.174	.407	1.294	1.065	.319
2	-2.479	-4.769	-5.560	-.377	.485	.164	-.437
3	-2.883	-5.243	-5.755	-.774	-.020	-.228	-.652
4	-2.853	-4.869	-4.848	-1.141	-.565	-.893	-1.312
5	-2.314	-3.789	-2.752	-1.130	-.887	-1.111	-1.266
6	*000.000	*000.000	*000.000	-.076	-.023	-.100	-.104
7	*000.000	*000.000	*000.000	-1.577	-1.280	-1.408	-1.674
8	*000.000	*000.000	*000.000	-2.971	-2.876	-2.922	-3.017
9	*000.000	*000.000	*000.000	-4.088	-4.183	-3.997	-3.893
10	-1.662	-2.608	-3.886	-3.557	-3.473	-3.257	-3.157
11	-1.318	-1.973	*000.000	-2.401	-2.690	-2.368	-2.329
12	-2.025	-1.564	-1.419	-1.637	-1.926	-1.703	-1.697
13	-1.933	-1.575	-1.312	-1.417	-1.653	-1.413	-1.406
14	-2.487	-1.577	-1.260	-1.318	-1.563	-1.374	-1.322
15	-1.443	-.185	-.222	-.247	-.363	-.396	-.314
16	-2.881	-2.777	-1.827	-2.247	-2.560	-2.495	-1.675
17	-3.091	-4.208	-2.623	-2.918	-3.606	-2.789	-2.256
18	-3.147	-4.201	-2.537	-2.830	-3.309	-2.803	-2.281
19	-2.828	-4.053	-2.321	-3.555	-3.824	-3.257	-2.459
20	-2.193	-2.386	-1.169	-1.505	-1.542	-1.500	-1.194
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	-1.939	-1.309	-.873	-.852	-.549	-.734	-.902
23	-1.977	-.991	-.526	-.421	-.464	-.479	-.734
24	-1.748	-.657	-.419	-.516	-.463	-.345	-.514
25	.162	-1.016	-2.423	1.072	1.166	1.100	.764
26	.962	.860	.306	-.090	*000.000	-.242	.215
27	.713	.966	.794	.861	.198	.346	.602
28	.384	.716	.785	.829	1.079	.873	.648
29	.062	.631	.660	.807	.836	.754	.588
30	-.153	.833	.843	1.063	.966	.940	-.262
31	.341	1.044	.980	1.303	1.299	1.247	.682
32	.450	.946	.890	1.238	1.231	1.067	.846
33	.437	.816	.744	.986	.973	.782	.359

Table 28. - Concluded.

(d) $C_{T,S} = 0.30$, $q_s = 19.17$

$\alpha = 25°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-1.746	-3.400	-4.014	-.368	.976	-.736	-.638
2	-2.869	-4.533	-4.451	-.605	.076	-.285	-1.149
3	-2.928	-4.559	-4.340	-1.047	-.499	-.703	-1.504
4	-.781	-.474	-.297	.005	.092	-.115	-.217
5	-2.426	-3.301	-1.553	-1.648	-1.423	-1.660	-1.979
6	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
7	*000.000	*000.000	*000.000	-1.556	-1.470	-1.744	-1.981
8	*000.000	*000.000	*000.000	-3.120	-3.386	-3.525	-3.586
9	*000.000	*000.000	*000.000	-3.808	-4.463	-4.502	-4.364
10	-1.199	-1.309	-1.348	-1.472	-1.817	-1.648	-1.645
11	-.923	-1.306	*000.000	-2.066	-2.610	-2.326	-2.255
12	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
13	-.883	-1.388	-1.378	-1.281	-1.649	-1.493	-1.416
14	-1.244	-1.542	-1.334	-1.443	-1.735	-1.686	-1.453
15	-.609	-.202	-.256	-.259	-.455	-.552	-.408
16	-1.870	-2.480	-1.742	-2.875	-3.443	-2.862	-1.855
17	-1.698	-2.298	-2.105	-2.451	-3.880	-3.425	-2.631
18	-1.655	-2.354	-2.142	-3.349	-4.720	-4.005	-2.842
19	-1.584	-2.103	-1.398	-2.340	-4.161	-4.014	-2.593
20	-1.282	-1.355	-1.230	-1.514	-2.848	-3.206	-2.343
21	-1.132	-1.140	-.933	-1.349	-2.240	-2.380	-1.700
22	-1.013	-.885	-.668	-.960	-1.097	-1.279	-1.089
23	-1.056	-.716	-.641	-.707	-.602	-.592	-.856
24	-1.053	-.776	-.692	-.574	-.214	-.312	-.907
25	-.261	-1.375	-2.324	1.079	1.306	1.270	.433
26	.866	.692	.242	.100	*000.000	-.414	.285
27	.882	1.069	.871	1.272	.754	1.007	.775
28	.440	.778	.814	.950	1.020	.812	.502
29	.185	.679	.730	.852	.879	.763	.604
30	.033	.823	.891	1.075	.989	.939	-.275
31	.504	1.107	1.031	1.451	1.431	1.327	.906
32	.553	1.015	.916	1.301	1.285	1.183	.857
33	.468	.720	.560	.939	1.001	.841	.393

$\alpha = 30°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-2.777	-4.727	-5.454	-.031	.542	.444	-1.329
2	-3.540	-4.830	-5.236	-1.321	-.634	-.909	-2.166
3	-3.725	-5.583	-5.531	-1.754	-1.237	-1.273	-2.200
4	-3.334	-4.177	-3.441	-1.905	-1.454	-1.653	-2.232
5	-2.549	-2.718	-1.495	-1.833	-1.673	-1.916	-2.138
6	*000.000	*000.000	*000.000	.026	.161	-.105	-.339
7	*000.000	*000.000	*000.000	-2.006	-1.846	-1.826	-2.161
8	*000.000	*000.000	*000.000	-3.375	-3.763	-3.688	-3.871
9	*000.000	*000.000	*000.000	-5.007	-5.290	-4.721	-4.487
10	-1.487	-1.469	-1.345	-3.417	-3.704	-3.338	-3.088
11	-1.160	-1.911	*000.000	-2.569	-3.063	-2.493	-2.307
12	-1.721	-1.501	-1.554	-1.499	-1.831	-1.400	-1.299
13	-1.118	-1.615	-1.541	-1.469	-1.659	-1.317	-1.096
14	-1.087	-1.427	-1.351	-1.356	-1.583	-1.220	-.982
15	-1.012	-.216	-.256	-.295	-.421	-.288	-.131
16	-1.597	-2.270	-1.893	-2.531	-3.348	-3.142	-1.915
17	-1.785	-2.655	-2.202	-2.907	-4.332	-3.480	-2.503
18	-1.448	-2.067	-2.011	-2.447	-3.879	-3.853	-2.726
19	-1.461	-2.066	-1.525	-2.793	-3.559	-3.643	-2.617
20	-1.196	-1.393	-.961	-1.768	-2.193	-2.105	-1.624
21	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000	*000.000
22	-1.138	-.983	-.800	-1.148	-1.202	-1.500	-1.289
23	-1.043	-.876	-.682	-.645	-.465	-.495	-.770
24	-1.024	-.825	-.745	-.650	-.158	-.435	-.545
25	-.880	-2.411	-3.394	1.311	1.484	1.347	.206
26	.854	.603	.297	.235	*000.000	-.354	.359
27	.850	1.007	.899	1.427	1.345	1.161	.787
28	.521	.879	.929	.999	1.091	.862	.631
29	.242	.763	.853	.932	1.003	.826	.694
30	-.020	.886	.976	1.161	1.019	.973	-.207
31	.418	1.069	1.020	1.388	1.426	1.333	.669
32	.526	.997	.912	1.260	1.274	1.103	.858
33	.431	.652	.593	.992	.995	.767	.376

$\alpha = 35°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-4.196	-6.187	-6.814	-.439	.239	.168	-2.070
2	-4.328	-5.583	-6.315	-1.742	-1.102	-1.216	-2.531
3	-4.112	-5.069	-5.461	-1.914	-1.497	-1.384	-2.478
4	-4.182	-4.206	-3.269	-2.511	-2.136	-2.267	-2.766
5	-2.921	-2.018	-1.907	-2.267	-2.136	-2.216	-2.248
6	*000.000	*000.000	*000.000	.033	.049	-.159	-.389
7	*000.000	*000.000	*000.000	-2.000	-1.918	-1.832	-2.276
8	*000.000	*000.000	*000.000	-3.614	-3.716	-3.327	-3.377
9	*000.000	*000.000	*000.000	-5.627	-5.921	-4.918	-4.443
10	-1.617	-2.021	-1.799	-3.778	-4.014	-3.327	-2.887
11	-1.068	-1.688	*000.000	-2.125	-2.516	-2.048	-1.829
12	-1.466	-1.561	-1.512	-1.466	-1.576	-1.172	-.997
13	-1.124	-1.693	-1.541	-1.280	-1.422	-1.106	-1.009
14	-1.023	-1.457	-1.221	-1.277	-1.391	-1.171	-.948
15	-1.032	-.308	-.315	-.209	-.399	-.372	-.243
16	-1.693	-2.332	-1.895	-2.791	-3.535	-2.962	-1.893
17	-1.544	-2.234	-1.854	-2.687	-3.639	-3.226	-2.326
18	-1.613	-2.158	-1.729	-2.538	-4.419	-3.735	-2.716
19	-1.517	-2.162	-1.552	-2.717	-4.334	-3.857	-2.800
20	-1.302	-1.573	-1.144	-2.564	-3.487	-2.756	-2.052
21	-1.175	-1.371	-1.042	-1.346	-1.664	-1.927	-1.687
22	-1.151	-1.238	-.926	-1.300	-1.380	-1.265	-1.206
23	-1.016	-.985	-.773	-.756	-.739	-.613	-.978
24	-.939	-.794	-.688	-.662	-.618	-.302	-.591
25	-1.822	-3.568	-4.592	1.376	1.516	1.352	-.505
26	.610	.221	-.068	.231	*000.000	-.101	.308
27	.774	.846	.877	1.359	1.300	.878	.644
28	.523	.682	1.015	1.006	1.008	.774	.602
29	.277	.821	.905	1.002	.939	.801	.660
30	-.143	.916	.894	1.098	.936	.869	-.208
31	.323	1.013	.954	1.298	1.288	1.204	.484
32	.525	.957	.847	1.258	1.250	1.134	.776
33	.403	.648	.621	1.020	.988	.750	.333

Table 29.- Pressure coefficients for wing with propeller rotation up at tip, full-span slat and fences, $\delta_f = 20°$.

(a) $C_{T,s} = 0.90$, $q_s = 20.22$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.001	1.025	.812	-1.065	.025	.337	.304
2	.974	1.010	.880	-.348	.770	.997	.195
3	.897	.967	.794	-.034	1.028	1.211	.261
4	.587	.706	.692	.471	1.142	1.133	.215
5	.406	.403	.419	.925	1.128	.933	.188
6	-.221	-.170	-.188	-.219	-.204	-.258	-.343
7	.176	.231	.087	.849	.842	.796	.303
8	-.468	-.728	-.589	.611	.367	.225	-.159
9	-.456	-1.286	-1.466	-.094	-.406	-.486	-.490
10	-.596	-1.065	-1.240	-.385	-.491	-.428	-.365
11	-.356	-.852	*000.000	-.538	-.622	-.383	-.349
12	-.490	-.543	-.589	-.461	-.477	-.184	-.304
13	-.191	-.447	-.443	-.290	-.356	-.202	-.219
14	-.178	-.371	-.350	-.327	-.304	-.173	-.254
15	.152	-.364	.194	-.115	-.085	-.002	-.130
16	.111	-.134	.252	-.069	0.	-.031	-.111
17	.101	-.092	.176	-.142	-.094	-.043	-.105
18	.090	.144	.220	-.068	-.030	-.032	-.108
19	-.020	-.036	-.100	-.161	-.096	-.083	-.079
20	-.246	-.440	-.483	-.310	-.135	-.119	-.233
21	-.356	-.662	-.730	-.463	-.208	-.246	-.308
22	-.445	-.704	-.758	-.657	-.235	-.335	-.337
23	-.389	-.242	-.233	-.188	-.055	-.092	-.107
24	-.227	.073	.129	-.029	-.069	.001	-.078
25	.231	.284	.283	-1.045	-.568	-.508	-.227
26	-.606	-.265	-.277	-.744	*000.000	-.663	-.165
27	-.256	-.130	-.126	-.296	-.282	-.082	-.281
28	.055	-.081	.341	-.234	-.140	-.121	-.142
29	.196	.240	.283	-.170	-.124	0.	-.041
30	.515	.619	.822	-.187	.073	.020	.061
31	.325	.542	.601	-.192	-.067	.047	.115
32	.228	.468	.540	-.116	-.065	.077	.071
33	.129	.317	.393	-.127	-.028	.048	-.107

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.955	1.023	.727	-.774	.214	.556	.163
2	.959	.937	.664	-.029	.901	1.103	.225
3	.761	.840	.670	.127	1.060	1.214	.307
4	.582	.643	.565	.641	1.204	1.169	.302
5	.321	.249	.316	.808	1.007	.880	.152
6	-.134	-.073	-.099	-.203	-.175	-.204	-.194
7	.113	.162	-.050	.803	.794	.779	.282
8	-.544	-.840	-.799	.411	.213	.139	-.213
9	-.968	-1.533	-1.756	-.175	-.582	-.704	-.623
10	-.604	-1.106	-1.273	-.436	-.598	-.610	-.529
11	-.383	-.890	*000.000	-.500	-.726	-.483	-.400
12	-.959	-.520	-.601	-.390	-.519	-.269	-.330
13	-.228	-.430	-.417	-.288	-.319	-.234	-.231
14	-.283	-.374	-.441	-.287	-.308	-.232	-.217
15	.018	.093	.239	-.086	-.018	-.116	-.027
16	-.031	-.109	.251	-.086	-.056	-.010	-.069
17	.029	-.043	.218	-.041	.012	-.046	.006
18	-.055	.155	.164	-.030	.018	-.075	-.066
19	-.073	-.017	-.096	-.084	-.037	-.060	-.018
20	-.341	-.433	-.502	-.205	-.110	-.111	-.198
21	-.522	-.743	-.822	-.443	-.234	-.287	-.275
22	-.487	-.648	-.732	-.485	-.151	-.303	-.305
23	-.500	-.296	-.246	-.166	-.052	-.032	-.001
24	-.270	.082	.137	.073	-.077	.056	-.047
25	.319	.473	.491	-.997	-.500	-.307	-.232
26	-.364	-.042	-.053	-.788	*000.000	-.621	-.177
27	-.241	-.031	-.057	-.270	-.182	-.148	-.234
28	.091	-.032	.508	-.213	-.141	-.099	-.028
29	.164	.332	.296	-.061	-.093	-.116	-.057
30	.479	.796	.790	-.114	-.047	-.019	.115
31	.348	.641	.584	-.109	-.018	-.003	.176
32	.307	.494	.557	.028	-.012	.099	.164
33	.149	.357	.328	.055	.034	.084	.007

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.037	1.114	.700	-.596	.404	.690	.181
2	.804	.852	.510	.106	.943	1.172	.222
3	.739	.775	.474	.435	1.195	1.299	.163
4	.424	.454	.349	.646	1.133	1.110	.234
5	.201	.107	.164	.866	1.060	.840	.094
6	-.113	0.	.047	-.244	-.161	-.352	-.188
7	.056	.172	-.221	.738	.849	.767	.317
8	-.706	-.963	-.875	.334	.171	.019	-.207
9	-1.076	-1.548	-1.782	-.310	-.667	-.791	-.712
10	-.714	-1.262	-1.441	-.508	-.679	-.660	-.508
11	-.462	-.903	*000.000	-.547	-.709	-.541	-.417
12	-1.014	-.536	-.639	-.453	-.495	-.297	-.344
13	-.300	-.397	-.463	-.290	-.290	-.246	-.220
14	-.369	-.370	-.419	-.257	-.242	-.223	-.214
15	-.080	.038	.218	.024	.060	-.096	-.086
16	-.139	-.132	.238	-.016	.019	.017	-.039
17	-.108	-.075	.207	-.067	-.008	-.080	-.039
18	-.073	.244	.157	-.021	.010	.001	-.017
19	-.198	-.003	-.126	-.058	.054	-.115	-.039
20	-.451	-.464	-.542	-.184	-.109	-.163	-.191
21	-.710	-.774	-.788	-.442	-.206	-.286	-.293
22	-.695	-.740	-.761	-.470	-.102	-.322	-.294
23	-.707	-.350	-.261	-.107	.018	-.025	-.163
24	-.409	.102	.130	0.	-.008	-.009	-.030
25	.434	.610	.592	-.852	-.342	-.193	-.167
26	-.252	.029	-.201	-.724	*000.000	-.531	-.239
27	-.134	-.036	.096	-.288	-.226	-.097	-.188
28	.115	.140	.552	-.198	-.088	-.107	-.047
29	.075	.416	.356	-.097	-.021	-.084	.066
30	.528	.916	.811	-.032	.082	.105	.128
31	.382	.636	.588	-.008	.018	.150	.129
32	.252	.504	.518	.292	.032	.192	.232
33	.108	.371	.409	.231	.106	.138	-.016

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.095	1.076	.573	-.364	.524	.760	.246
2	.794	.752	.365	.297	1.000	1.216	.281
3	.632	.572	.156	.459	1.170	1.186	.205
4	.349	.292	.076	.656	1.049	1.059	.198
5	.154	-.037	-.093	.875	.937	.735	.105
6	0.	.015	.119	-.277	-.186	-.296	-.118
7	.025	-.166	-.589	.685	.738	.703	.279
8	-.752	-1.253	-1.264	.268	.014	-.091	-.250
9	-1.198	-1.814	-2.070	-.469	-.876	-.981	-.723
10	-.715	-1.374	-1.599	-.637	-.836	-.740	-.551
11	-.473	-.972	*000.000	-.668	-.841	-.583	-.366
12	-1.101	-.615	-.665	-.514	-.611	-.401	-.292
13	-.410	-.484	-.481	-.326	-.373	-.291	-.226
14	-.438	-.436	-.447	-.309	-.326	-.241	-.181
15	-.136	-.124	.317	-.008	.056	-.045	.010
16	-.211	-.200	.237	-.014	.022	0.	.004
17	-.161	-.106	.242	.019	.015	.003	.020
18	-.147	.198	.172	-.055	-.004	-.008	.055
19	-.230	-.094	-.116	-.038	-.010	-.064	-.002
20	-.704	-.577	-.573	-.254	-.137	-.206	-.200
21	-.937	-.810	-.758	-.450	-.229	-.427	-.281
22	-1.065	-.868	-.775	-.581	-.223	-.373	-.296
23	-.955	-.427	-.315	-.194	-.078	-.063	-.025
24	-.508	.041	.158	-.013	-.024	.022	-.018
25	.572	.701	.692	-.758	-.318	-.263	-.125
26	-.160	.007	-.232	-.674	*000.000	-.451	-.170
27	-.023	-.090	.325	-.326	-.152	-.196	-.142
28	.217	.589	.552	-.231	-.111	-.130	.015
29	.092	.367	.407	-.076	-.138	-.056	.065
30	.588	.936	.827	.006	.063	.228	.244
31	.440	.626	.584	.078	.060	.143	.334
32	.269	.470	.530	.213	-.020	.154	.212
33	.141	.360	.419	.309	.100	.246	.071

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.013	.996	.402	-.139	.690	.840	.029
2	.710	.626	-.042	.484	1.105	1.237	.207
3	.521	.423	-.055	.572	1.167	1.126	.088
4	.237	.074	-.262	.820	1.066	.994	.150
5	0.	-.227	-.286	.870	.835	.595	-.033
6	-.016	.047	.080	-.267	-.175	-.276	-.110
7	-.074	-.423	-.858	.709	.672	.631	.284
8	-.916	-1.385	-1.446	.201	-.132	-.259	-.330
9	-1.299	-1.939	-2.312	-.563	-1.035	-1.094	-.829
10	-.886	-1.560	-1.741	-.763	-.975	-.881	-.625
11	-.546	-1.000	*000.000	-.663	-.872	-.633	-.462
12	-1.060	-.608	-.657	-.449	-.598	-.387	-.302
13	-.519	-.524	-.485	-.323	-.397	-.328	-.264
14	-.617	-.490	-.425	-.292	-.383	-.307	-.205
15	-.214	-.262	.306	.066	-.007	.096	-.013
16	-.310	-.233	.300	.031	.102	.018	-.025
17	-.307	-.135	.253	.034	-.007	.078	.012
18	-.291	.127	.170	.023	.003	.010	.049
19	-.377	-.123	-.147	-.039	-.074	.005	.020
20	-.928	-.638	-.645	-.254	-.158	-.297	-.165
21	-1.248	-.893	-.781	-.508	-.317	-.399	-.348
22	-1.395	-.917	-.845	-.543	-.336	-.328	-.289
23	-1.312	-.490	-.273	-.228	-.072	-.011	-.035
24	-.550	.022	.153	.070	-.054	-.023	.040
25	.645	.775	.728	.644	-.158	-.107	-.133
26	-.097	-.103	-.145	-.654	*000.000	-.361	-.187
27	.005	-.049	.628	-.284	-.128	-.139	-.212
28	.160	.694	.566	-.168	-.143	-.193	.042
29	.080	.359	.398	0.	-.087	.009	.159
30	.687	.931	.864	.221	.098	.085	.331
31	.445	.603	.633	.202	.105	.243	.206
32	.224	.469	.520	.352	.143	.198	.300
33	.041	.331	.401	.433	.109	.213	.054

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.960	.928	.223	-.026	.794	.894	-.166
2	.618	.457	-.315	.477	1.204	1.248	-.080
3	.408	.219	-.407	.655	1.232	1.169	.035
4	.118	-.146	-.639	.960	1.165	1.052	-.173
5	-.128	-.374	-.569	.969	.842	.509	-.111
6	.031	.126	.060	-.227	-.175	-.281	-.220
7	-.174	-.627	-1.066	.661	.657	.638	.174
8	-.990	-1.598	-1.565	.172	-.173	-.272	-.433
9	-1.422	-2.136	-2.560	-.675	-1.143	-1.125	-.870
10	-.887	-1.559	-1.770	-.734	-.978	-.895	-.639
11	-.615	-1.050	*000.000	-.711	-.886	-.636	-.406
12	-1.134	-.655	-.655	-.472	-.596	-.339	-.363
13	-.661	-.553	-.539	-.302	-.419	-.272	-.249
14	-.859	-.535	-.458	-.292	-.371	-.289	-.227
15	-.280	-.383	.312	.179	.016	.051	-.110
16	-.440	-.210	.266	.140	.080	.017	-.073
17	-.465	-.195	.220	.119	.139	.086	-.025
18	-.417	.141	.167	.109	-.016	.084	-.013
19	-.536	-.204	-.173	-.005	-.119	-.009	-.028
20	-1.156	-.705	-.639	-.268	-.249	-.190	-.253
21	-1.581	-.956	-.828	-.573	-.499	-.364	-.350
22	-1.708	-.904	-.798	-.594	-.366	-.484	-.351
23	-1.428	-.512	-.284	-.160	-.045	-.079	-.277
24	-.658	.017	.044	.125	.040	-.045	-.082
25	.748	.872	.801	.501	-.069	-.044	-.291
26	-.026	-.201	-.035	-.628	*000.000	-.318	-.276
27	.029	.009	.825	-.191	-.117	-.133	-.250
28	.140	.708	.587	-.151	-.088	-.173	-.026
29	.082	.386	.429	.102	.014	.003	.050
30	.499	.934	.866	.338	.127	.228	.149
31	.392	.609	.623	.296	.075	.099	.151
32	.213	.462	.572	.428	.154	.268	.201
33	.012	.311	.455	.484	.195	.268	-.029

Table 29. - Continued.

(a) $C_{T,s} = 0.90$, $q_s = 20.22$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.855	.796	.171	.126	.831	.958	-.051
2	.438	.246	-.578	.660	1.213	1.235	-.096
3	.230	.010	-.697	.812	1.227	1.232	-.214
4	-.073	-.278	-.729	.801	1.015	.828	-.224
5	-.293	-.532	-.691	.826	.721	.500	-.300
6	-.027	.146	.045	-.242	-.214	-.255	-.116
7	-.306	-.813	-1.259	.654	.603	.600	.128
8	-1.230	-1.893	-1.815	.055	-.338	-.294	-.362
9	-1.495	-2.261	-2.596	-.862	-1.269	-1.196	-.839
10	-1.098	-1.691	-1.846	-.864	-1.134	-.969	-.597
11	-.712	-1.106	*000.000	-.796	-1.010	-.657	-.490
12	-1.133	-.707	-.648	-.547	-.702	-.444	-.403
13	-.870	-.625	-.521	-.371	-.462	-.358	-.262
14	-1.025	-.557	-.467	-.351	-.435	-.274	-.245
15	-.423	-.417	.332	.190	.107	.053	-.110
16	-.619	-.193	.382	.233	.050	.070	-.116
17	-.569	-.170	.280	.174	.037	.014	-.016
18	-.569	.124	.197	.148	.010	.035	.032
19	-.703	-.241	-.133	.011	-.121	-.061	-.046
20	-1.310	-.704	-.533	-.324	-.385	-.258	-.266
21	-1.884	-.965	-.709	-.628	-.577	-.476	-.232
22	-2.065	-.992	-.687	-.671	-.558	-.580	-.390
23	-1.714	-.556	-.371	-.239	-.045	-.115	-.191
24	-.749	-.017	.092	.101	-.046	-.036	-.085
25	.804	.929	.818	-.370	-.014	-.077	-.400
26	-.038	-.262	.121	-.604	*000.000	-.346	-.382
27	-.005	.192	.844	-.187	-.104	-.175	-.097
28	.328	.621	.569	-.078	-.101	-.170	-.037
29	.017	.390	.490	.174	.068	.090	.075
30	.622	.889	.952	.308	.255	.357	.172
31	.306	.598	.685	.504	.260	.135	.164
32	.103	.443	.561	.594	.302	.177	.190
33	-.057	.291	.382	.453	.292	.159	.019

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.888	.679	-.088	.355	.952	.971	-.170
2	.324	.054	-.864	.699	1.209	1.177	-.206
3	.105	-.212	-.963	.803	1.165	1.108	-.264
4	-.156	-.499	-1.066	.851	.981	.842	-.279
5	-.294	-.712	-.954	.788	.618	.474	-.299
6	.040	.200	.059	-.286	-.186	-.231	.007
7	-.476	-.930	-1.440	.542	.560	.622	.166
8	-1.394	-2.105	-2.065	-.083	-.411	-.379	-.217
9	-1.569	-2.414	-2.666	-.922	-1.404	-1.151	-.652
10	-1.101	-1.789	-1.824	-.994	-1.189	-.857	-.378
11	-.778	-1.181	*000.000	-.912	-1.077	-.626	-.261
12	-1.112	-.813	-.717	-.592	-.744	-.345	-.195
13	-.962	-.697	-.538	-.452	-.565	-.394	-.212
14	-1.137	-.643	-.476	-.377	-.483	-.334	-.187
15	-.526	-.462	.321	.194	.040	.112	-.013
16	-.734	-.199	.265	.208	.112	.065	.036
17	-.731	-.256	.214	.155	.095	*.006	.089
18	-.677	.077	.181	.158	.041	.133	.100
19	-.816	-.258	-.200	-.030	-.140	-.032	.045
20	-1.575	-.776	-.613	-.428	-.466	-.320	-.249
21	-1.866	-1.013	-.785	-.661	-.616	-.523	-.227
22	-2.221	-1.054	-.629	-.794	-.637	-.623	-.350
23	-1.775	-.592	-.355	-.276	-.143	-.157	-.230
24	-.745	-.060	.002	.068	-.059	-.042	-.032
25	.784	.899	.776	-.231	.050	-.021	-.105
26	-.038	-.294	.104	-.542	*000.000	-.351	-.244
27	-.044	.273	.864	-.193	-.124	-.219	-.069
28	.509	.639	.651	-.071	-.098	-.071	.076
29	.002	.331	.424	.210	.058	.124	.145
30	.652	.845	.956	.393	.242	.090	.271
31	.259	.557	.663	.575	.255	.241	.333
32	.095	.418	.549	.546	.365	.242	.224
33	-.062	.246	.424	.401	.283	.103	.078

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.668	.586	-.277	.498	.971	.934	-.446
2	.099	-.190	-1.112	.793	1.198	1.167	-.548
3	-.106	-.464	-1.347	.786	1.129	.963	-.483
4	-.367	-.730	-1.335	.857	.906	.877	-.495
5	-.469	-.844	-1.168	.653	.580	.468	-.459
6	-.021	.139	.076	-.231	-.165	-.172	-.083
7	-.573	-1.028	-1.526	.468	.507	.601	-.075
8	-1.471	-2.108	-2.058	-.230	-.499	-.240	-.379
9	-1.589	-2.343	-2.617	-.972	-1.409	-.934	-.507
10	-1.178	-1.842	-1.950	-1.054	-1.271	-.752	-.449
11	-.889	-1.268	*000.000	-.951	-1.116	-.492	-.375
12	-1.061	-.777	-.651	-.611	-.719	-.274	-.354
13	-1.026	-.656	-.499	-.421	-.489	-.257	-.209
14	-1.381	-.664	-.516	-.477	-.527	-.286	-.294
15	-.627	-.435	.313	.259	.136	.139	-.126
16	-.922	-.104	.277	.228	.091	.095	-.044
17	-.890	-.257	.232	.193	.102	.104	-.030
18	-.850	.052	.143	.099	-.026	.014	-.097
19	-1.034	-.255	-.213	-.078	-.172	-.088	-.155
20	-1.778	-.821	-.594	-.462	-.470	-.311	-.294
21	-2.333	-1.145	-.739	-.837	-.775	-.466	-.395
22	-2.343	-1.039	-.649	-.795	-.827	-.584	-.512
23	-1.979	-.592	-.405	-.273	-.157	-.196	-.313
24	-.837	-.094	-.078	.012	-.104	-.064	-.141
25	.809	.991	.831	-.168	.140	.023	-.296
26	-.238	-.375	.160	-.500	*000.000	-.365	-.358
27	-.107	.579	.952	-.185	-.178	-.108	-.047
28	.432	.648	.617	-.088	-.111	-.095	.069
29	-.058	.354	.488	.264	.120	.186	.018
30	.569	.852	.879	.437	.318	.325	.090
31	.176	.604	.715	.533	.345	.328	.204
32	.033	.420	.584	.518	.394	.217	.105
33	-.066	.243	.402	.412	.261	.224	.049

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.450	.424	-.431	.651	1.075	.885	-.513
2	-.246	-.319	-1.277	.901	1.239	1.054	-.505
3	-.325	-.574	-1.462	.819	1.065	.903	-.396
4	-.610	-.940	-1.597	.809	.898	.747	-.598
5	-.709	-1.032	-1.387	.639	.687	.353	-.409
6	-.015	.131	-.026	-.225	-.181	-.287	.001
7	-.682	-1.154	-1.704	.443	.480	.695	-.201
8	-1.673	-2.279	-2.213	-.294	-.549	-.172	-.279
9	-1.864	-2.649	-2.900	-1.113	-1.555	-.878	-.364
10	-1.231	-1.952	-1.909	-1.123	-1.257	-.631	-.264
11	-.897	-1.309	*000.000	-.939	-1.047	-.493	-.309
12	-1.016	-.868	-.740	-.632	-.698	-.356	-.243
13	-1.215	-.738	-.587	-.464	-.493	-.326	-.166
14	-1.570	-.744	-.554	-.445	-.505	-.341	-.269
15	-.872	-.445	.296	.303	.091	.102	-.043
16	-1.117	-.154	.246	.238	.131	.046	-.041
17	-1.002	-.286	.186	.195	.058	.086	.042
18	-.989	-.013	.086	.203	.066	.061	-.074
19	-1.157	-.317	-.235	-.027	-.178	-.021	-.056
20	-2.138	-.877	-.734	-.519	-.484	-.418	-.195
21	-2.706	-1.210	-.833	-.767	-.740	-.498	-.335
22	-2.716	-1.125	-.743	-.842	-.777	-.633	-.253
23	-1.840	-.606	-.457	-.232	-.124	-.408	-.305
24	-.947	-.172	-.146	.061	-.019	-.100	-.076
25	.803	.941	.731	.077	.151	-.099	-.210
26	-.338	-.468	.133	-.414	*000.000	-.374	-.245
27	.146	.682	.853	-.187	-.127	-.234	.010
28	.383	.538	.579	-.034	-.083	-.043	.036
29	-.102	.348	.462	.326	.128	.156	.078
30	.548	.808	.878	.691	.292	.232	.343
31	.171	.568	.653	.613	.478	.253	.162
32	.014	.389	.526	.565	.404	.266	.167
33	-.065	.235	.373	.463	.307	.220	.060

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.192	.323	-.482	.711	.997	.638	-.329
2	-.458	-.518	-1.338	.953	1.142	.997	-.478
3	-.612	-.751	-1.426	.922	1.042	.831	-.352
4	-.924	-1.147	-1.783	.855	.888	.706	-.456
5	-.907	-1.103	-1.390	.537	.422	.302	-.390
6	-.082	.112	-.032	-.274	-.205	-.319	.081
7	-.906	-1.349	-1.817	.355	.460	.544	-.182
8	-1.875	-2.449	-2.227	-.501	-.587	-.104	-.224
9	-2.089	-2.830	-2.915	-1.465	-1.626	-.813	-.346
10	-1.334	-1.960	-1.756	-1.286	-1.206	-.444	-.246
11	-1.020	-1.395	*000.000	-1.130	-1.084	-.441	-.335
12	-.977	-.920	-.633	-.668	-.591	-.220	-.207
13	-1.500	-.805	-.554	-.521	-.538	-.344	-.268
14	-1.850	-.748	-.609	-.429	-.455	-.172	-.212
15	-.950	-.374	.341	.197	.145	.095	-.131
16	-1.188	-.054	.249	.225	.114	.094	-.007
17	-1.178	-.372	.132	.201	.039	.076	-.071
18	-1.141	-.029	.091	.160	-.005	-.103	-.105
19	-1.375	-.343	-.210	-.025	-.141	-.095	-.095
20	-2.266	-.933	-.715	-.565	-.572	-.332	-.361
21	-2.659	-1.097	-.839	-.797	-.758	-.501	-.244
22	-2.491	-1.145	-.812	-.860	-.747	-.392	-.423
23	-1.653	-.588	-.508	-.217	-.274	-.353	-.211
24	-.906	-.239	-.169	.031	-.103	-.133	-.117
25	.620	.906	.760	.172	.221	-.356	-.241
26	-.551	-.393	.119	-.430	*000.000	-.371	-.217
27	.379	.703	.944	-.160	-.143	-.176	-.066
28	.329	.591	.605	-.047	-.132	-.090	.057
29	-.171	.360	.483	.340	.120	.053	.083
30	.452	.847	.942	.580	.439	.203	.114
31	.153	.594	.704	.588	.363	.127	.157
32	-.031	.352	.523	.530	.326	.149	.004
33	-.079	.190	.365	.435	.261	.115	.060

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.210	.223	-.569	.845	1.078	.533	-.041
2	-.901	-.594	-1.457	.983	1.191	.557	-.068
3	-.973	-.881	-1.577	.919	1.123	.552	-.177
4	-1.032	-1.142	-1.716	.793	.874	.818	-.202
5	-1.191	-1.222	-1.418	.520	.524	.523	-.114
6	-.153	.052	-.057	-.244	-.191	-.355	.040
7	-1.026	-1.478	-1.883	.356	.548	.689	.147
8	-2.151	-2.609	-2.265	-.674	-.579	-.094	-.131
9	-2.223	-2.887	-2.884	-1.558	-1.495	-.463	-.179
10	-1.556	-2.159	-1.885	-1.480	-1.292	-.432	-.134
11	-1.176	-1.455	*000.000	-1.145	-.932	-.251	-.160
12	-.938	-.939	-.696	-.657	-.503	-.091	-.157
13	-1.669	-.809	-.603	-.445	-.424	-.277	-.099
14	-2.042	-.770	-.584	-.445	-.388	-.340	-.177
15	-1.047	-.322	.339	.261	.094	-.030	.058
16	-1.354	.031	.237	.211	.115	.067	.081
17	-1.282	-.426	.161	.191	.091	0.	-.024
18	-1.230	-.036	.052	.151	.019	0.	.017
19	-1.572	-.418	-.275	-.051	-.070	-.109	-.025
20	-2.309	-.885	-.742	-.485	-.311	-.233	-.078
21	-2.897	-1.223	-1.074	-.880	-.652	-.483	-.299
22	-2.841	-1.123	-.958	-.819	-.630	-.377	-.193
23	-1.392	-.668	-.592	-.241	-.242	-.196	-.260
24	-.774	-.215	-.165	.006	-.072	-.023	-.072
25	.582	.961	.782	.218	.180	-.260	-.029
26	-.718	-.426	.106	-.402	*000.000	-.338	-.148
27	.544	.674	.894	-.133	-.067	-.185	.011
28	.268	.553	.608	.104	-.127	-.120	.170
29	-.165	.311	.458	.290	.143	.125	.100
30	.360	.818	.910	.614	.288	.148	.119
31	.068	.639	.701	.650	.339	.090	.201
32	-.065	.395	.566	.578	.338	.179	.223
33	-.075	.217	.321	.370	.328	.123	.219

Table 29. - Continued.

(a) $C_{T,s} = 0.90$, $q_s = 20.22$

$\alpha = 65°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.303	.099	-.522	.928	1.079	.067	-.136
2	-1.065	-.761	-1.556	.927	1.190	.635	-.269
3	-1.165	-1.025	-1.652	.906	1.084	.533	-.017
4	-1.260	-1.304	-1.843	.788	.932	.531	-.031
5	-1.333	-1.373	-1.507	.539	.536	.544	-.038
6	-.285	.035	-.088	-.301	-.129	-.242	.065
7	-1.120	-1.486	-1.793	.351	.501	.507	.020
8	-2.187	-2.606	-2.205	-.582	-.483	-.005	.037
9	-2.434	-3.008	-2.744	-1.651	-1.323	-.512	-.127
10	-1.604	-2.154	-1.758	-1.488	-1.095	-.324	-.193
11	-1.226	-1.491	*000.000	-1.095	-.786	-.293	.038
12	-1.004	-.986	-.717	-.689	-.496	-.252	-.156
13	-1.880	-.886	-.683	-.505	-.283	-.268	-.084
14	-2.097	-.826	-.671	-.481	-.410	-.321	-.161
15	-1.068	-.249	.296	.132	.078	-.002	.034
16	-1.306	-.018	.251	.198	.149	.008	.124
17	-1.230	-.448	.157	.097	.051	-.067	.212
18	-1.324	-.068	.068	.082	.103	-.128	.104
19	-1.395	-.458	-.299	-.128	-.055	-.148	.030
20	-2.449	-1.011	-.874	-.449	-.322	-.205	-.096
21	-2.771	-1.186	-.994	-.738	-.566	-.333	-.164
22	-2.347	-1.088	-.952	-.741	-.475	-.310	-.085
23	-1.208	-.688	-.624	-.229	-.184	-.282	-.173
24	-.668	-.248	-.123	.023	-.007	-.178	-.042
25	.298	.900	.735	.169	.159	-.700	-.004
26	-.823	-.475	.052	-.176	*000.000	-.264	-.064
27	.636	.681	.873	-.175	-.085	-.157	.080
28	.149	.522	.614	-.108	-.135	-.123	.138
29	-.201	.278	.435	.203	.087	-.031	.122
30	.358	.800	.952	.596	.247	-.032	.189
31	-.011	.611	.636	.588	.291	-.023	.252
32	-.070	.421	.548	.480	.236	-.032	.294
33	-.117	.154	.336	.369	.211	.095	.072

$\alpha = 70°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.743	-.134	-.642	.814	.959	.190	-.237
2	-1.250	-.948	-1.532	.976	1.126	.504	-.274
3	-1.488	-1.329	-1.721	.915	1.045	.559	-.290
4	-1.439	-1.466	-1.756	.779	.872	.544	-.301
5	-1.461	-1.503	-1.538	.450	.531	.387	-.432
6	-.151	-.067	-.076	-.288	-.140	-.160	-.441
7	-1.348	-1.622	-1.761	.321	.501	.317	-.026
8	-2.612	-2.954	-2.326	-.675	-.511	-.013	-.347
9	-2.483	-3.110	-2.758	-1.684	-1.330	-.247	-.377
10	-1.723	-2.264	-1.660	-1.527	-.990	-.122	-.260
11	-1.336	-1.569	*000.000	-1.102	-.778	-.182	-.302
12	-1.013	-1.000	-.758	-.671	-.436	-.101	-.407
13	-1.711	-.869	-.675	-.509	-.322	-.164	-.520
14	-2.089	-.847	-.677	-.365	-.209	-.163	-.311
15	-1.021	-.217	.291	.053	.005	.048	-.090
16	-1.126	-.083	.201	.118	-.008	.066	-.353
17	-1.185	-.509	.137	.093	.049	-.015	-.113
18	-1.197	-.079	.025	.088	-.038	.061	-.314
19	-1.245	-.486	-.265	-.091	.021	.030	-.229
20	-2.017	-1.023	-.848	-.448	-.273	-.135	-.385
21	-2.311	-1.168	-1.028	-.654	-.383	-.305	-.507
22	-1.950	-1.032	-.978	-.634	-.395	-.305	-.266
23	-1.001	-.652	-.646	-.247	-.314	-.329	-.620
24	-.555	-.250	-.066	-.010	-.095	-.136	-.359
25	.174	.794	.689	.244	.191	-.317	-.272
26	-.807	-.408	.131	-.202	*000.000	-.204	-.428
27	.531	.687	.827	-.170	-.065	-.117	-.425
28	.107	.447	.573	-.111	-.065	-.030	-.230
29	-.211	.263	.479	.178	.010	.042	-.312
30	.264	.804	.850	.393	.175	.003	-.042
31	-.026	.563	.598	.443	.137	.130	-.219
32	-.064	.339	.489	.537	.319	.152	.003
33	-.062	.140	.335	.375	.243	.050	-.257

$\alpha = 75°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.934	-.247	-.775	.858	.999	-.053	-.231
2	-1.512	-1.178	-1.743	1.077	1.201	.068	-.211
3	-1.442	-1.529	-1.867	.902	1.045	.356	-.013
4	-1.629	-1.787	-2.009	.673	.894	.386	-.087
5	-1.669	-1.722	-1.710	.433	.579	.017	-.182
6	-.189	-.119	-.092	-.182	-.034	-.130	-.133
7	-1.508	-1.884	-2.061	.302	.521	.079	-.144
8	-2.707	-3.125	-2.432	-.783	-.424	-.091	-.271
9	-2.678	-3.432	-3.053	-1.931	-1.288	-.172	-.181
10	-1.840	-2.535	-1.923	-1.655	-1.056	-.123	-.244
11	-1.298	-1.557	*000.000	-1.098	-.658	-.153	-.188
12	-1.052	-1.080	-.791	-.689	-.383	-.188	-.269
13	-1.665	-.954	-.768	-.532	-.347	-.240	-.296
14	-1.725	-.884	-.717	-.411	-.252	-.201	-.153
15	-1.016	-.319	.262	.019	-.011	-.092	-.101
16	-1.024	-.128	.151	.198	.064	-.022	-.141
17	-1.137	-.544	.119	.100	.014	-.057	-.120
18	-.942	-.139	.024	-.012	-.063	-.055	-.157
19	-1.154	-.525	-.338	-.123	-.105	-.077	-.247
20	-1.875	-1.035	-.846	-.434	-.238	-.216	-.380
21	-2.011	-1.171	-1.097	-.605	-.286	-.303	-.437
22	-1.716	-1.037	-1.045	-.641	-.389	-.290	-.254
23	-.899	-.648	-.677	-.271	-.296	-.289	-.247
24	-.573	-.325	-.133	-.122	-.082	-.209	-.323
25	-.132	.857	.698	.323	.247	-.310	-.099
26	-.688	-.517	.015	-.118	*000.000	-.091	-.267
27	.377	.694	.883	-.125	-.051	-.154	-.005
28	.114	.432	.621	-.067	-.024	-.054	-.210
29	-.239	.199	.439	.126	-.084	-.237	-.159
30	.270	.777	.867	.420	.031	-.089	-.183
31	.011	.591	.589	.521	.110	.004	-.139
32	-.083	.308	.450	.546	.264	-.052	-.041
33	-.101	.113	.272	.379	.319	.044	-.018

$\alpha = 80°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.219	-.314	-.844	.842	.943	-.242	-.431
2	-1.672	-1.389	-1.820	1.051	1.140	-.009	-.285
3	-1.735	-1.724	-2.029	.825	1.136	.086	-.346
4	-1.799	-1.951	-2.086	.747	.856	.016	-.094
5	-2.002	-2.000	-1.799	.468	.672	.218	-.236
6	-.197	-.157	-.173	-.241	-.134	-.092	-.127
7	-1.572	-1.899	-1.944	.175	.419	-.049	-.252
8	-2.626	-3.044	-2.301	-.772	-.320	-.077	-.233
9	-2.504	-3.442	-2.857	-1.770	-1.109	-.131	-.141
10	-1.844	-2.440	-1.808	-1.574	-1.023	-.110	-.091
11	-1.334	-1.595	*000.000	-1.230	-.869	-.251	.001
12	-1.104	-.984	-.839	-.656	-.411	-.126	-.260
13	-1.296	-.847	-.689	-.507	-.263	-.202	-.271
14	-1.559	-.897	-.733	-.437	-.241	-.170	-.156
15	-.755	-.375	.259	-.021	-.017	-.106	-.096
16	-.895	-.160	.148	.032	-.021	-.061	-.022
17	-.900	-.472	.105	-.023	-.026	-.076	-.089
18	-.735	-.114	.008	-.076	-.122	-.139	-.144
19	-1.057	-.474	-.342	-.175	-.085	-.123	-.221
20	-1.525	-.945	-.828	-.471	-.268	-.176	-.224
21	-1.706	-1.021	-1.052	-.714	-.418	-.190	-.221
22	-1.286	-.889	-.976	-.578	-.533	-.314	-.254
23	-.812	-.638	-.618	-.272	-.280	-.246	-.205
24	-.421	-.272	-.095	-.163	-.124	-.105	-.140
25	-.263	.702	.594	.299	.156	-.280	-.184
26	-.701	-.442	-.011	-.226	*000.000	-.253	-.164
27	.147	.710	.820	-.154	-.114	-.093	-.149
28	.057	.423	.568	-.079	-.057	-.067	-.068
29	-.220	.191	.416	.078	-.194	-.160	-.053
30	.190	.756	.713	.298	.089	-.014	-.122
31	-.062	.488	.468	.292	.018	-.053	-.127
32	-.029	.322	.407	.434	.242	.073	.046
33	-.089	.094	.193	.305	.085	-.001	0.

Table 29.- Continued.

(b) $C_{T,S} = 0.80$, $q_s \approx 19.94$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.912	1.006	.683	-.601	.275	.510	.374
2	1.026	1.077	.865	.031	.957	1.100	.740
3	.900	.909	.758	.419	1.074	1.176	.756
4	.895	.890	.666	.654	1.186	1.176	.686
5	.421	.359	.475	.896	1.035	.818	.357
6	-.203	-.172	-.185	-.236	-.214	-.372	-.391
7	.177	.220	.079	.863	.893	.820	.489
8	-.511	-.443	-.678	.403	.222	-.027	-.223
9	-.987	-1.570	-1.691	-.405	-.733	-.744	-.708
10	-.678	-1.159	-1.280	-.576	-.676	-.634	-.571
11	-.516	-.959	.000.000	-.663	-.787	-.564	-.449
12	-.991	-.595	-.503	-.481	-.550	-.350	-.323
13	-.410	-.481	-.668	-.337	-.357	-.318	-.265
14	-.268	-.302	-.302	-.336	-.347	-.259	-.216
15	.186	-.230	.230	-.103	-.058	-.029	-.069
16	.074	-.131	.237	-.104	-.011	-.093	-.009
17	.050	-.085	.227	-.059	-.043	-.099	-.015
18	.010	.140	.141	-.077	-.030	-.070	.003
19	-.088	-.071	-.074	-.094	-.078	-.116	-.064
20	-.334	-.483	-.503	-.213	-.125	-.200	-.269
21	-.544	-.776	-.747	-.431	-.151	-.270	-.293
22	-.528	-.726	-.724	-.479	-.116	-.321	-.272
23	-.482	-.270	-.101	-.180	-.044	-.060	-.100
24	-.330	.074	.121	-.046	-.041	-.018	-.018
25	.140	.374	.314	-.863	-.363	-.476	-.145
26	-.503	-.194	-.171	-.777	*000.000	-.651	-.070
27	-.288	-.141	-.106	-.236	-.204	-.277	-.314
28	.050	-.111	.263	-.197	-.146	-.144	-.138
29	.206	.323	.300	-.121	-.122	-.055	0.
30	.465	.648	.496	-.071	.017	.015	.208
31	.333	.592	.688	-.134	.030	.096	.264
32	.276	.485	.535	.043	.007	-.005	.152
33	.146	.325	.437	.043	.003	.051	-.011

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.016	1.068	.692	-.347	.540	.700	.407
2	.881	.877	.464	.369	1.037	1.130	.593
3	.796	.733	.499	.427	1.168	1.193	.569
4	.562	.506	.332	.716	1.164	1.030	.564
5	.309	.147	.190	.810	.960	.758	.224
6	-.118	-.095	.005	-.298	-.169	-.249	-.160
7	.073	.128	-.129	.731	.769	.670	.369
8	-.407	-1.026	-.873	.214	-.032	-.164	-.354
9	-1.188	-1.693	-1.906	-.537	-.865	-1.132	-1.018
10	-.825	-1.341	-1.486	-.702	-.841	-.840	-.684
11	-.542	-.974	*000.000	-.718	-.829	-.693	-.513
12	-1.080	-.603	-.647	-.541	-.546	-.448	-.343
13	-.374	-.518	-.498	-.339	-.374	-.421	-.345
14	-.390	-.452	-.453	-.346	-.286	-.372	-.246
15	-.055	-.262	.248	-.020	-.003	-.057	-.099
16	-.128	-.126	.211	-.009	.016	-.125	-.069
17	-.131	-.097	.196	-.002	.031	-.058	-.018
18	-.061	.144	.169	-.008	.009	-.023	.014
19	-.149	-.057	-.049	-.090	.007	-.085	-.011
20	-.476	-.528	-.547	-.233	-.084	-.238	-.248
21	-.648	-.779	-.731	-.428	-.113	-.316	-.344
22	-.747	-.815	-.769	-.524	-.095	-.281	-.327
23	-.724	-.360	-.293	-.069	.012	-.096	-.218
24	-.445	.074	.132	-.025	-.021	-.040	-.069
25	.333	.532	.485	-.626	-.194	-.209	-.061
26	-.308	-.010	-.128	-.698	*000.000	-.526	-.202
27	-.202	-.041	.052	-.270	-.110	-.142	-.164
28	.078	.010	.587	-.236	-.096	-.178	-.130
29	.124	.394	.353	-.073	-.005	-.111	.056
30	.490	.425	.847	-.053	.007	.096	.411
31	.275	.537	.501	.069	.064	.163	.388
32	.323	.494	.547	.243	.093	.120	.341
33	.112	.376	.455	.288	.011	.179	-.005

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.010	1.054	.527	-.140	.719	.888	.576
2	.849	.774	.172	.510	1.128	1.229	.624
3	.707	.540	.160	.554	1.169	1.139	.541
4	.411	.233	.013	.793	1.063	.948	.272
5	.204	-.053	-.123	.773	.787	.533	.166
6	-.045	.010	.104	-.242	-.126	-.242	-.157
7	-.002	-.264	-.659	.633	.621	.563	.311
8	-.774	-1.311	-1.247	.051	-.260	-.375	-.441
9	-1.317	-1.989	-2.288	-.763	-1.231	-1.309	-1.053
10	-.936	-1.418	-1.596	-.840	-1.018	-1.020	-.819
11	-.603	-1.049	*000.000	-.778	-1.008	-.795	-.650
12	-1.043	-.632	-.627	-.505	-.621	-.559	-.494
13	-.451	-.563	-.502	-.355	-.454	-.412	-.389
14	-.493	-.471	-.456	-.304	-.359	-.351	-.312
15	.099	-.392	.295	.111	.133	-.055	-.053
16	.194	-.151	.244	.073	.125	-.027	-.096
17	-.174	-.108	.223	.065	.030	.003	.037
18	-.126	.175	.109	.039	.060	-.010	.060
19	-.230	-.069	-.132	-.024	-.018	-.089	-.053
20	-.709	-.594	-.533	-.242	-.222	-.377	-.390
21	-.960	-.815	-.695	-.449	-.270	-.444	-.468
22	-1.115	-.827	-.695	-.555	-.302	-.577	-.515
23	-1.042	-.405	-.277	-.134	-.029	-.134	-.120
24	-.556	.044	.142	.014	-.045	-.043	.037
25	.508	.695	.676	-.535	-.088	-.060	.078
26	-.051	.008	-.217	-.506	*000.000	-.400	-.186
27	-.038	-.023	.413	-.164	-.069	-.194	-.203
28	.155	.500	.552	-.169	-.101	-.146	.055
29	.120	.410	.342	.041	-.028	.063	.230
30	.493	.946	.875	.119	.112	.331	.532
31	.459	.649	.570	.168	.054	.281	.345
32	.261	.488	.543	.156	.096	.323	.212
33	.102	.357	.423	.347	.167	.297	.027

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.027	.990	.300	.169	.879	.993	.405
2	.773	.553	-.171	.672	1.207	1.220	.421
3	.625	.327	-.234	.598	1.158	1.108	.415
4	.310	-.013	-.411	.690	1.002	.798	.105
5	.093	-.309	-.476	.701	.643	.407	-.113
6	.124	.047	.054	-.188	-.091	-.188	-.110
7	-.076	-.561	-.963	.573	.542	.477	.269
8	-.974	-1.647	-1.589	-.044	-.398	-.540	-.642
9	-1.383	-2.088	-2.383	-.787	-1.409	-1.503	-1.140
10	-.984	-1.606	-1.743	-.917	-1.203	-1.212	-.923
11	-.662	-1.127	*000.000	-.886	-1.059	-.892	-.635
12	-1.125	-.699	-.662	-.581	-.732	-.585	-.421
13	-.526	-.571	-.425	-.385	-.520	-.492	-.371
14	-.650	-.525	-.449	-.350	-.414	-.444	-.349
15	-.226	-.548	.349	.177	.179	.015	-.222
16	-.301	-.208	.324	.164	.186	.009	-.088
17	-.290	-.163	.290	.131	.144	.084	.008
18	-.236	.132	.141	.081	.070	.012	.079
19	-.344	-.168	-.045	-.049	-.083	-.117	-.017
20	-.899	-.678	-.584	-.408	-.375	-.376	-.398
21	-1.093	-.904	-.727	-.640	-.541	-.640	-.455
22	-1.269	-.949	-.628	-.692	-.385	-.653	-.453
23	-1.383	-.426	-.266	-.151	-.030	-.211	-.240
24	-.615	.040	.141	.033	-.024	-.050	.010
25	.589	.787	.729	-.251	.036	-.040	.192
26	.059	-.181	-.006	-.399	*000.000	-.343	-.157
27	.027	-.010	.703	-.154	-.082	-.153	-.213
28	.240	.693	.550	-.068	-.110	-.102	.118
29	.104	.402	.499	.199	.072	.124	.258
30	.753	.908	.932	.346	.289	.518	.687
31	.470	.602	.684	.373	.241	.361	.365
32	.254	.435	.536	.402	.288	.289	.392
33	.091	.345	.440	.414	.221	.275	.033

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.974	.800	-.042	.671	1.030	1.111	.021
2	.564	.207	-.578	.877	1.189	1.226	.046
3	.410	.003	-.794	.861	1.122	1.082	-.006
4	.121	-.3 3	-.862	.766	.929	.740	-.135
5	-.078	-.571	-.809	.564	.491	.330	-.319
6	.099	.183	.078	-.184	-.091	-.084	-.145
7	-.292	-.888	-1.336	-.022	.437	.577	-.099
8	-1.151	-1.997	-1.877	-.304	-.686	-.708	-.725
9	-1.553	-2.376	-2.641	-1.101	-1.699	-1.601	-1.237
10	-1.162	-1.809	-1.923	-1.139	-1.477	-1.340	-1.004
11	-.768	-1.205	*000.000	-.956	-1.210	-.900	-.770
12	-1.188	-.756	-.662	-.649	-.839	-.586	-.520
13	-.787	-.632	-.501	-.461	-.620	-.422	-.391
14	-.905	-.558	-.464	-.472	-.572	-.429	-.457
15	-.345	-.649	.394	.333	.232	.226	-.198
16	-.467	-.259	.293	.304	.184	.127	-.096
17	-.476	-.200	.285	.229	.116	.251	-.086
18	-.444	.113	.154	.156	.060	.099	-.017
19	-.558	-.187	-.175	-.003	-.106	-.040	-.165
20	-1.208	-.735	-.594	-.502	-.554	-.424	-.348
21	-1.491	-.886	-.630	-.750	-.728	-.640	-.588
22	-1.947	-.841	-.638	-.842	-.689	-.695	-.676
23	-1.649	-.417	-.273	-.288	-.106	-.102	-.283
24	-.680	-.002	.094	.075	-.033	.018	-.078
25	.771	.972	.811	.085	.225	.321	-.048
26	.050	-.278	.207	-.386	*000.000	-.102	-.304
27	.153	.195	.830	-.128	-.068	-.086	-.154
28	.219	.649	.632	.033	-.098	-.122	.062
29	.668	.404	.484	.321	.215	.257	.199
30	.709	.923	.924	.758	.544	.562	.587
31	.367	.632	.700	.598	.409	.486	.422
32	.173	.472	.641	.569	.488	.473	.324
33	.030	.304	.440	.418	.299	.353	-.045

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.933	.609	-.286	.886	1.193	1.211	-.211
2	.439	-.088	-1.048	.940	1.230	1.236	-.368
3	.222	-.366	-1.269	.990	1.092	1.000	-.339
4	.081	-.755	-1.372	.775	.812	.636	-.616
5	-.201	-.844	-1.177	.527	.432	.152	-.555
6	-.007	.169	.007	-.145	-.054	-.225	-.155
7	-.536	-1.120	-1.725	.365	.441	.406	-.404
8	-1.402	-2.285	-2.235	-.591	-.754	-.799	-.919
9	-1.868	-2.693	-3.027	-1.573	-2.036	-1.803	-1.213
10	-1.256	-1.995	-2.095	-1.474	-1.645	-1.481	-1.062
11	-.909	-1.344	*000.000	-1.198	-1.355	-.949	-.871
12	-1.109	-.751	-.691	-.724	-.884	-.621	-.505
13	-.418	-.668	-.563	-.507	-.663	-.462	-.395
14	-1.152	-.585	-.541	-.492	-.597	-.529	-.399
15	-.535	-.704	.377	.410	.262	.186	-.208
16	-.680	-.272	.290	.405	.260	.146	-.176
17	-.720	-.208	.225	.340	.203	.163	-.123
18	-.663	.148	.154	.295	.098	.065	-.050
19	-.777	-.228	-.188	.011	-.171	-.150	-.174
20	-1.419	-.735	-.667	-.567	-.643	-.513	-.431
21	-1.874	-.932	-.692	-.858	-.888	-.748	-.414
22	-2.248	-.947	-.660	-.967	-.909	-.893	-.536
23	-1.868	-.448	-.372	-.310	-.211	-.375	-.408
24	-.840	-.051	-.065	.175	.014	.024	-.278
25	.842	.971	.735	.311	.382	.320	-.156
26	.148	-.276	.089	-.328	*000.000	-.110	-.308
27	.176	.617	.988	-.074	-.075	-.228	-.125
28	.505	.679	.857	.118	-.030	-.053	.098
29	.007	.422	.523	.462	.360	.280	.335
30	.606	.915	.895	.872	.615	.506	.248
31	.294	.652	.741	.755	.488	.436	.237
32	.143	.473	.607	.618	.519	.344	.185
33	-.007	.314	.444	.466	.383	.290	-.130

Table 29. - Continued.

(b) $C_{T,S} = 0.80$, $q_s = 19.94$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.091	.353	-.669	.960	1.267	1.323	-.167
2	.244	-.554	-1.612	.858	1.157	1.083	-.414
3	.034	-.702	-1.716	.817	.994	.945	-.464
4	-.223	-1.131	-1.899	.534	.662	.508	-.564
5	-.471	-1.139	-1.490	.254	.211	.059	-.655
6	.113	.171	.008	-.149	-.051	-.082	-.014
7	-.710	-1.358	-1.987	.240	.418	.438	-.319
8	-1.549	-2.511	-2.402	-.792	-.925	-.792	-.868
9	-1.810	-2.846	-3.235	-1.852	-2.141	-1.703	-1.108
10	-1.266	-2.019	-2.044	-1.668	-1.661	-1.249	-.870
11	-.945	-1.311	*000.000	-1.271	-1.362	-.779	-.532
12	-1.063	-.900	-.714	-.795	-.958	-.440	-.443
13	-1.068	-.661	-.596	-.568	-.665	-.482	-.380
14	-1.348	-.642	-.541	-.596	-.644	-.463	-.288
15	-.705	-.785	.344	.418	.349	.215	-.108
16	-.890	-.254	.248	.360	.236	.150	.030
17	-.885	-.265	.202	.340	.189	.160	.013
18	-.826	.086	.009	.282	.115	.082	-.023
19	-.955	-.269	-.255	-.064	-.173	-.146	-.089
20	-1.736	-.805	-.717	-.726	-.708	-.487	-.294
21	-2.290	-1.022	-.809	-1.022	-1.038	-.767	-.514
22	-2.636	-1.033	-.744	-1.132	-1.060	-.932	-.528
23	-1.924	-.545	-.399	-.416	-.353	-.444	-.408
24	-.432	-.112	-.088	.092	.064	-.003	-.139
25	.927	1.009	.677	.528	.514	.380	-.052
26	-.043	-.248	.258	-.123	*000.000	-.058	-.218
27	.045	.838	.830	-.089	-.034	-.116	.180
28	.481	.645	.659	.253	-.040	-.084	.184
29	-.014	.415	.443	.465	.402	.232	.187
30	.547	.906	1.009	.982	.819	.614	.423
31	.240	.656	.603	.688	.664	.528	.362
32	.046	.479	.585	.530	.577	.337	.339
33	-.119	.309	.421	.414	.381	.242	.092

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.671	.058	-1.053	1.038	1.251	1.179	-.225
2	-.038	-.909	-2.017	.822	1.091	1.064	-.617
3	-.180	-1.193	-2.129	.754	.881	.882	-.612
4	-.431	-1.342	-2.184	.464	.496	.364	-.685
5	-.599	-1.428	-1.817	.209	.132	.028	-.651
6	.094	.131	.023	-.105	-.042	-.080	.027
7	-.884	-1.539	-2.170	.233	.271	.360	-.372
8	-1.771	-2.704	-2.584	-.936	-.965	-.628	-.631
9	-1.885	-2.899	-3.128	-1.926	-2.127	-1.538	-.940
10	-1.437	-2.166	-2.056	-1.874	-1.797	-1.122	-.648
11	-1.063	-1.411	*000.000	-1.392	-1.453	-.831	-.643
12	-1.071	-.844	-.723	-.911	-.891	-.521	-.317
13	-1.385	-.767	-.654	-.669	-.750	-.559	-.378
14	-1.561	-.719	-.584	-.593	-.680	-.482	-.296
15	-.918	-.770	.433	.455	.313	.248	-.122
16	-1.132	-.224	.276	.412	.298	.172	.049
17	-1.164	-.347	.234	.397	.219	.171	.065
18	-1.080	.047	.158	.261	.111	.119	-.009
19	-1.168	-.318	-.249	-.065	-.169	-.117	-.049
20	-2.137	-.947	-.793	-.851	-.854	-.643	-.303
21	-2.770	-1.204	-.905	-1.114	-1.151	-.876	-.418
22	-2.817	-1.076	-.798	-1.129	-1.108	-.952	-.529
23	-2.076	-.635	-.489	-.466	-.530	-.504	-.505
24	-1.090	-.190	-.155	.098	.012	-.005	-.169
25	.946	.981	.593	.637	.590	.446	-.124
26	-.208	-.153	.304	-.091	*000.000	-.044	-.181
27	.187	.938	.982	-.080	-.069	.003	.216
28	.405	.662	.703	.560	-.024	.046	.184
29	-.044	.429	.541	.480	.362	.243	.182
30	.442	.901	.999	1.051	.974	.699	.314
31	.186	.648	.780	.734	.695	.462	.327
32	.047	.477	.626	.572	.536	.316	.319
33	-.112	.245	.438	.419	.373	.220	.087

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.514	-.258	-1.328	1.077	1.349	1.157	-.650
2	-.285	-1.315	-2.459	.869	1.104	1.002	-1.091
3	-.468	-1.560	-2.438	.700	.829	.726	-1.073
4	-.821	-1.596	-2.374	.378	.442	.266	-.992
5	-.741	-1.731	-2.040	.082	.055	-.062	-1.119
6	.054	.097	.011	-.014	.013	-.017	-.127
7	-.991	-1.790	-2.328	.068	.067	.384	-.506
8	-2.015	-3.027	-2.812	-1.203	-1.100	-.625	-.601
9	-2.146	-3.351	-3.444	-2.317	-2.298	-1.504	-1.099
10	-1.474	-2.268	-2.073	-2.028	-1.790	-1.125	-.961
11	-1.071	-1.442	*000.000	-1.416	-1.346	-.655	-.692
12	-1.041	-.905	-.747	-.907	-.817	-.482	-.566
13	-1.433	-.768	-.649	-.648	-.618	-.483	-.540
14	-1.762	-.763	-.624	-.598	-.590	-.511	-.370
15	-.995	-.798	.429	.441	.270	.245	-.384
16	-1.263	-.208	.276	.446	.317	.093	.041
17	-1.264	-.394	.139	.359	.349	.126	-.058
18	-1.234	.033	.009	.270	.210	-.005	-.287
19	-1.615	-.341	-.270	-.075	-.185	-.130	-.343
20	-2.252	-.960	-.816	-.778	-.710	-.583	-.517
21	-2.967	-1.227	-1.049	-1.155	-1.077	-.897	-.630
22	-2.815	-1.111	-.958	-1.074	-1.000	-.945	-.649
23	-1.790	-.682	-.602	-.432	-.457	-.566	-.690
24	-.918	-.255	-.150	.095	.089	-.088	-.433
25	.989	.931	.536	.707	.698	.377	-.518
26	-.401	-.038	.410	-.077	*000.000	-.042	-.337
27	.530	.923	.960	-.069	.003	-.103	.055
28	.390	.710	.780	.736	.052	.008	.097
29	-.111	.442	.612	.501	.441	.193	.029
30	.418	.859	.943	.997	1.078	.485	.069
31	.220	.673	.732	.717	.798	.364	.111
32	.049	.506	.665	.628	.623	.393	.030
33	-.036	.248	.414	.459	.408	.193	-.073

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.158	-.497	-1.569	1.099	1.222	.929	-.727
2	-.635	-1.558	-2.499	.769	.999	.836	-.728
3	-.986	-1.919	-2.836	.560	.761	.708	-.755
4	-.971	-1.861	-2.831	.270	.359	.225	-.695
5	-1.147	-1.778	-2.062	.059	-.011	-.112	-.683
6	.021	.091	.027	.013	.005	-.052	-.066
7	-1.277	-1.906	-2.408	-.002	-.010	.373	-.350
8	-2.448	-3.270	-2.941	-1.290	-1.227	-.551	-.790
9	-2.529	-3.485	-3.589	-2.440	-2.314	-1.218	-.510
10	-1.679	-2.381	-2.110	-2.057	-1.791	-.954	-.514
11	-1.247	-1.510	*000.000	-1.425	-1.253	-.547	-.415
12	-1.093	-.977	-.781	-.870	-.792	-.407	-.415
13	-1.457	-.800	-.694	-.622	-.567	-.399	-.277
14	-2.270	-.792	-.681	-.585	-.554	-.393	-.324
15	-1.180	-.794	.405	.430	.193	.171	-.093
16	-1.408	-.177	.273	.447	.300	.201	.079
17	-1.426	-.412	.169	.449	.367	.169	.058
18	-1.338	-.008	.099	.317	.303	.101	.002
19	-1.623	-.635	-.362	-.082	-.109	-.059	-.020
20	-2.632	-1.053	-.969	-.822	-.781	-.624	-.417
21	-3.168	-1.174	-1.079	-1.064	-.912	-.654	-.424
22	-2.764	-1.081	-.984	-1.037	-.926	-.736	-.471
23	-1.547	-.685	-.649	-.390	-.484	-.432	-.274
24	-.824	-.282	-.164	.109	-.043	-.104	-.112
25	.759	.903	.604	.841	.725	.277	-.240
26	-.221	.320	.449	-.043	*000.000	-.025	-.171
27	.772	.947	.973	.022	-.088	-.048	.123
28	.514	.726	.770	.796	.034	.185	.159
29	-.196	.432	.631	.539	.349	.300	.241
30	.349	.906	1.007	1.049	1.088	.526	.353
31	.127	.688	.764	.748	.711	.435	.146
32	.011	.459	.598	.568	.533	.296	.319
33	-.104	.229	.396	.424	.311	.121	.002

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.323	-.446	-1.829	1.124	1.234	.857	-.892
2	-1.116	-1.875	-2.811	.595	.856	.569	-.597
3	-1.341	-2.331	-3.023	.460	.681	.560	-.417
4	-1.554	-2.350	-2.919	.101	.242	.262	-.589
5	-1.318	-2.142	-2.270	-.109	-.068	-.142	-.481
6	.174	.003	-.017	-.069	-.023	.011	-.093
7	-1.514	-2.107	-2.464	-.362	-.263	.202	-.370
8	-2.780	-3.604	-3.404	-1.401	-1.169	-.351	-.438
9	-2.861	-3.731	-3.570	-2.609	-2.318	-1.087	-.442
10	-1.933	-2.525	-2.034	-2.190	-1.747	-.711	-.349
11	-1.361	-1.499	*000.000	-1.373	-1.043	-.406	-.273
12	-1.177	-.985	-.777	-.876	-.685	-.390	-.318
13	-2.147	-.863	-.720	-.674	-.545	-.487	-.424
14	-2.224	-.812	-.728	-.561	-.470	-.334	-.252
15	-1.312	-.736	.392	.381	.175	.247	-.017
16	-1.372	-.088	.244	.407	.321	.160	-.078
17	-1.421	-.506	.177	.391	.314	.208	.048
18	-1.396	-.069	.094	.242	.341	.092	.066
19	-1.555	-.493	-.314	-.123	-.017	-.083	-.106
20	-2.746	-1.072	-.985	-.818	-.460	-.473	-.381
21	-2.765	-1.140	-1.050	-.921	-.644	-.552	-.417
22	-2.829	-1.174	-1.107	-1.000	-.774	-.692	-.470
23	-1.228	-.712	-.691	-.398	-.447	-.397	-.336
24	-.679	-.265	-.197	.071	-.049	-.075	-.042
25	.488	.819	.321	.877	.816	.262	-.524
26	-.440	.344	.367	-.127	*000.000	-.025	-.118
27	.453	1.024	1.041	-.002	-.080	-.057	.181
28	.237	.665	.762	.747	.211	.180	.196
29	-.174	.404	.607	.433	.398	.201	.149
30	.333	.877	.962	.924	1.112	.517	.155
31	.142	.698	.654	.691	.693	.331	.201
32	.018	.446	.548	.557	.509	.195	.130
33	-.028	.205	.380	.433	.320	.175	.154

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.845	-1.102	-1.795	.981	1.203	.397	-.557
2	-1.702	-2.437	-3.147	.608	.957	.261	-.514
3	-1.773	-2.662	-3.261	.453	.685	.398	-.518
4	-1.465	-2.772	-3.105	.010	.222	-.026	-.494
5	-2.149	-2.368	-2.342	-.114	-.066	-.044	-.414
6	.018	-.022	-.045	-.023	.055	.027	-.093
7	-1.944	-2.372	-2.594	-.504	-.118	.506	-.257
8	-2.869	-3.707	-2.982	-1.450	-1.042	-.095	-.367
9	-2.889	-3.738	-3.310	-2.502	-2.159	-.964	-.317
10	-2.020	-2.548	-1.959	-2.089	-1.541	-.557	-.304
11	-1.518	-1.660	*000.000	-1.492	-1.159	-.397	-.325
12	-1.184	-1.002	-.850	-.842	-.601	-.293	-.289
13	-2.068	-.816	-.729	-.573	-.412	-.260	-.233
14	-2.448	-.939	-.873	-.585	-.351	-.305	-.261
15	-1.146	-.604	.357	.417	.258	.297	.012
16	-1.269	-.037	.145	.449	.355	.249	-.036
17	-1.209	-.496	.126	.390	.370	.176	-.088
18	-1.185	-.051	.066	.256	.263	.101	-.053
19	-1.367	-.490	-.387	-.129	-.053	-.046	-.154
20	-2.421	-1.065	-1.015	-.731	-.357	-.438	-.363
21	-2.238	-1.100	-1.147	-.869	-.690	-.579	-.472
22	-2.021	-1.048	-1.088	-.860	-.649	-.568	-.437
23	-1.089	-.695	-.714	-.372	-.431	-.439	-.468
24	-.589	-.304	-.148	.045	-.050	-.125	-.198
25	.114	.719	.247	.939	.807	.117	-.642
26	-.314	.428	.373	-.143	*000.000	.018	-.178
27	.477	1.043	1.059	.047	.015	.065	-.167
28	.100	.644	.729	.715	.202	.140	-.115
29	-.265	.397	.541	.433	.364	.177	-.123
30	.298	1.022	.933	1.064	1.129	.522	-.117
31	.021	.766	.552	.726	.650	.398	-.110
32	.029	.472	.471	.506	.472	.324	-.162
33	.050	.201	.253	.366	.342	.244	-.105

Table 29.- Continued.

(b) $C_{T,s} = 0.80$, $q_s = 19.94$

$\alpha = 65°$

TUHE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-1.507	-1.688	-1.912	.960	1.207	.355	-.246
2	-2.092	-3.015	-3.247	.553	.857	.303	-.298
3	-2.134	-3.433	-3.614	.341	.654	.277	-.329
4	-2.074	-3.137	-3.238	.029	.257	.146	-.311
5	-2.470	-2.891	-2.548	-.321	-.191	-.102	-.410
6	-.174	-.126	-.040	-.025	.044	.066	-.041
7	-1.779	-2.383	-2.360	-.366	.019	.417	-.086
8	-2.564	-4.485	-2.926	-1.569	-1.093	-.232	-.120
9	-3.049	-4.148	-3.563	-2.742	-2.142	-.698	-.171
10	-2.008	-2.704	-1.985	-2.222	-1.569	-.483	-.231
11	-1.572	-1.636	.000.000	-1.418	-.931	-.306	-.204
12	-1.131	-1.024	-.848	-.866	-.500	-.213	-.210
13	-1.244	-.944	-.863	-.639	-.447	-.301	-.295
14	-1.693	-.472	-.748	-.578	-.364	-.261	-.280
15	-.962	-.512	.299	.310	.158	.202	-.020
16	-1.013	-.016	.234	.340	.372	.175	.001
17	-1.077	-.472	.170	.320	.341	.125	-.014
18	-.942	-.012	.093	.248	.348	.120	-.016
19	-1.080	-.405	-.349	-.120	.040	-.003	-.098
20	-1.704	-.952	-.942	-.696	-.371	-.388	-.284
21	-1.487	-1.105	-1.204	-.964	-.684	-.440	-.347
22	-1.589	-1.044	-1.111	-.907	-.667	-.506	-.429
23	-.482	-.694	-.691	-.412	-.436	-.345	-.441
24	-.517	-.346	-.163	-.023	-.065	-.147	-.128
25	-.483	.473	.269	.887	.791	.186	-.403
26	-.340	.348	.311	-.168	.000.000	.045	-.203
27	.181	.963	1.026	-.044	-.026	.032	.108
28	.064	.588	.790	.725	.333	.083	.175
29	-.126	.357	.573	.388	.402	.219	.166
30	.237	.956	.812	.992	1.090	.374	.106
31	.038	.665	.433	.645	.663	.419	.180
32	.040	.447	.486	.492	.489	.341	.217
33	.075	.186	.208	.320	.304	.262	.072

$\alpha = 70°$

TUHE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-1.985	-2.617	-2.242	.993	1.181	.244	-.112
2	-2.252	-3.576	-3.323	.558	.898	.230	-.005
3	-2.126	-3.459	-3.194	.334	.685	.512	-.082
4	-2.318	-3.546	-3.326	-.011	.364	.361	-.251
5	-2.713	-2.943	-2.568	-.260	-.059	.118	-.144
6	-.394	-.266	-.092	-.026	.061	.060	-.066
7	-1.851	-2.605	-2.529	-.481	.113	.268	-.177
8	-3.112	-4.078	-2.960	-1.621	-1.062	-.166	-.167
9	-2.687	-3.817	-3.087	-2.423	-1.705	-.383	-.163
10	-1.983	-2.708	-1.877	-2.232	-1.418	-.473	-.323
11	-1.484	-1.525	.000.000	-1.329	-.801	-.172	-.172
12	-1.104	-.993	-.883	-.744	-.485	-.234	-.258
13	-1.658	-.952	-.818	-.537	-.287	-.175	-.160
14	-1.249	-.779	-.736	-.491	-.285	-.194	-.242
15	-.423	-.574	.343	.295	.150	.192	.010
16	-.985	-.068	.238	.436	.309	.173	-.019
17	-.853	-.404	.186	.350	.347	.133	-.069
18	-.874	-.096	.006	.244	.290	.057	-.058
19	-.905	-.414	-.220	.013	.054	.024	-.039
20	-1.546	-.972	-.919	-.750	-.514	-.336	-.311
21	-1.513	-1.132	-1.114	-.837	-.506	-.486	-.498
22	-1.455	-.921	-1.035	-.941	-.630	-.496	-.406
23	-.677	-.635	-.605	-.479	-.319	-.265	-.268
24	-.357	-.258	-.105	.014	-.038	-.098	-.112
25	-.840	-.167	.352	.915	.764	-.005	.176
26	-.605	.362	.236	-.194	.000.000	.071	-.075
27	-.114	.696	.943	-.065	.020	.076	.090
28	-.076	.449	.883	.701	.038	.143	.157
29	-.122	.289	.451	.386	.405	.163	.144
30	.154	.920	.708	1.048	1.113	.442	.140
31	-.067	.700	.341	.714	.641	.359	.119
32	-.024	.365	.399	.461	.450	.392	.183
33	.115	.177	.314	.351	.305	.214	.096

$\alpha = 75°$

TUHE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-2.174	-3.112	-2.198	1.012	1.207	.134	.025
2	-2.306	-4.053	-3.475	.560	.890	.292	.084
3	-2.317	-4.129	-3.640	.292	.658	.037	-.113
4	-2.272	-3.643	-3.398	.081	.527	-.128	-.035
5	-2.419	-3.061	-2.622	-.336	.025	-.030	-.121
6	-.447	-.422	-.144	-.095	.021	-.006	.127
7	-1.649	-2.619	-2.366	-.482	.096	-.132	-.037
8	-2.737	-4.027	-2.835	-1.645	-.773	-.258	-.228
9	-2.492	-3.766	-3.078	-2.638	-1.682	-.371	-.261
10	-1.695	-2.572	-1.825	-2.170	-1.112	-.208	-.117
11	-1.490	-1.499	.000.000	-1.285	-.723	-.231	-.165
12	-1.009	-.958	-.830	-.669	-.339	-.227	-.149
13	-1.204	-.859	-.779	-.560	-.241	-.251	-.151
14	-1.152	-.746	-.747	-.531	-.331	-.286	-.227
15	-.715	-.570	.295	.305	.208	.270	.039
16	-.644	-.108	.198	.384	.366	.288	.017
17	-.544	-.407	.134	.390	.348	.188	.013
18	-.537	-.049	-.015	.206	.261	.133	-.064
19	-.478	-.344	-.311	.032	.101	-.052	-.073
20	-.995	-.862	-.804	-.571	-.405	-.435	-.358
21	-.974	-.955	-1.047	-.780	-.587	-.270	-.327
22	-.708	-.804	-.961	-.647	-.499	-.343	-.344
23	-.402	-.494	-.486	-.270	-.259	-.182	-.167
24	-.174	-.142	-.091	-.078	-.098	-.168	-.067
25	-1.272	-.407	.287	.933	.782	-.134	-.116
26	-.478	.327	.173	-.185	.000.000	.003	-.050
27	-.206	.511	.941	-.019	.015	-.003	.040
28	-.018	.383	.648	.649	.160	.165	.183
29	-.023	.234	.394	.383	.339	.130	.185
30	.198	.737	.562	.959	1.041	.529	.158
31	.098	.546	.366	.593	.578	.422	.147
32	.128	.337	.396	.451	.395	.290	.277
33	.140	.159	.231	.290	.215	.202	.105

$\alpha = 80°$

TUHE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-2.255	-3.796	-2.346	.981	.854	-.181	-.084
2	-2.290	-4.422	-3.454	.582	.952	-.096	-.153
3	-2.210	-4.282	-3.432	.408	.826	-.123	-.085
4	-2.199	-3.705	-3.369	.056	.526	-.134	-.068
5	-2.049	-3.062	-2.502	-.253	.048	-.114	-.095
6	-.440	-.502	-.165	-.018	-.037	.001	.047
7	-1.462	-2.379	-2.104	-.288	.353	-.106	-.158
8	-2.297	-3.576	-2.533	-1.589	-.603	-.209	-.242
9	-1.840	-3.273	-2.687	-2.281	-1.097	-.129	-.226
10	-1.528	-2.184	-1.553	-1.837	-.885	-.158	-.233
11	-1.050	-1.124	.000.000	-1.091	-.737	-.222	-.315
12	-1.011	-.885	-.745	-.545	-.420	-.262	-.280
13	-.693	-.718	-.649	-.482	-.368	-.129	-.188
14	-.774	-.673	-.642	-.402	-.396	-.277	-.250
15	-.477	-.578	.202	.277	.082	.295	-.057
16	-.553	-.156	.125	.436	.237	.210	.018
17	-.464	-.348	.049	.387	.232	.217	.054
18	-.478	-.098	.006	.237	.101	.006	.021
19	-.496	-.344	-.278	.013	-.005	-.075	-.118
20	-.886	-.707	-.675	-.683	-.489	-.329	-.366
21	-.696	-.873	-.927	-.645	-.707	-.248	-.367
22	-.603	-.792	-.819	-.599	-.673	-.369	-.455
23	-.335	-.444	-.360	-.315	-.392	-.335	-.297
24	-.121	-.110	-.041	-.099	-.192	-.214	-.138
25	-1.528	-2.128	.173	.987	.456	-.271	-.223
26	-.708	.128	.204	-.193	.000.000	.048	-.034
27	-.337	.339	.893	.052	-.156	-.040	.147
28	-.114	.209	.545	.677	-.103	.104	.140
29	-.092	.211	.278	.338	.295	.213	.241
30	.114	.527	.505	1.059	.938	.455	.032
31	.074	.471	.490	.643	.453	.396	.234
32	.129	.310	.288	.358	.270	.253	.234
33	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000

Table 29. - Continued.

(c) $C_{T,S} = 0.60$, $q_s = 21.57$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.898	1.055	.486	-.205	.612	.776	.619
2	.922	1.045	.611	.504	1.071	1.136	.876
3	.875	.919	.547	.632	1.190	1.183	.807
4	.630	.649	.495	.742	1.130	1.035	.677
5	.385	.297	.272	.778	.906	.751	.386
6	-.340	-.211	-.336	-.322	-.263	-.363	-.425
7	.129	.180	-.116	.632	.752	.692	.416
8	-.561	-.496	-.801	-.085	-.185	-.250	-.401
9	-1.172	-1.695	-1.824	-.925	-1.176	-1.233	-1.164
10	-.920	-1.345	-1.488	-1.032	-1.075	-1.065	-.951
11	-.766	-1.196	.000.000	-.994	-1.096	-.914	-.817
12	-1.218	-.745	-.726	-.667	-.739	-.591	-.617
13	-.623	-.584	-.505	-.395	-.443	-.402	-.437
14	-.443	-.490	-.421	-.343	-.353	-.348	-.319
15	0.	-.206	.147	.007	-.048	-.036	-.146
16	.009	-.200	.171	.019	-.019	-.077	-.113
17	-.017	-.042	.182	.009	.054	.008	-.064
18	-.027	.051	.041	-.041	-.051	-.059	-.116
19	-.127	-.127	-.109	-.042	-.073	-.090	-.151
20	-.568	-.512	-.528	-.240	-.137	-.164	-.304
21	-.769	-.686	-.695	-.378	-.223	-.268	-.337
22	-.894	-.755	-.898	-.323	-.114	-.184	-.341
23	-.889	-.289	-.122	-.121	-.082	-.154	-.146
24	-.500	.042	.051	-.083	-.118	-.113	-.148
25	.054	.212	-.006	-.783	-.359	-.311	-.316
26	-.732	-.323	-.438	-.632	.000.000	-.670	-.033
27	-.388	-.173	-.172	-.290	-.236	-.225	-.290
28	-.074	-.144	.087	-.255	-.218	-.232	-.298
29	.129	.280	.247	-.083	-.038	-.055	-.076
30	.425	.678	.706	.068	-.039	.109	.194
31	.302	.657	.541	.051	.061	.167	.255
32	.270	.486	.442	.111	.030	.141	.213
33	.094	.344	.326	.081	.022	.100	-.030

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.973	1.086	.441	.119	.800	.873	.709
2	.939	.843	.263	.581	1.183	1.227	.885
3	.744	.703	.344	.686	1.195	1.144	.730
4	.685	.348	.080	.770	1.049	.908	.534
5	.281	.009	-.091	.642	.744	.536	.277
6	-.194	-.010	-.193	-.251	-.150	-.261	-.170
7	-.013	-.134	-.440	.394	.555	.501	.340
8	-.809	-1.295	-1.168	-.325	-.440	-.554	-.611
9	-1.499	-2.094	-2.282	-1.358	-1.645	-1.687	-1.502
10	-1.110	-1.655	-1.788	-1.367	-1.382	-1.316	-1.163
11	-.784	-1.162	.000.000	-1.071	-1.152	-.999	-.870
12	-1.201	-.718	-.710	-.672	-.750	-.661	-.577
13	-.492	-.550	-.496	-.401	-.485	-.509	-.412
14	-.574	-.510	-.446	-.426	-.414	-.452	-.351
15	-.191	-.263	.177	.048	.109	-.037	-.092
16	-.250	-.182	.169	.054	.059	-.053	-.004
17	-.266	-.161	.136	.073	.050	.002	.014
18	-.258	-.106	.088	.032	.053	+.001	-.022
19	-.258	-.154	-.160	-.040	-.040	-.150	-.104
20	-.721	-.604	-.607	-.232	-.242	-.407	-.368
21	-1.083	-.906	-.822	-.411	-.363	-.635	-.548
22	-1.120	-.848	-.660	-.441	-.297	-.730	-.555
23	-.997	-.311	-.224	-.108	-.033	-.128	-.174
24	-.591	-.079	.116	.025	-.021	-.012	-.024
25	.299	.553	.358	-.447	-.099	-.124	-.007
26	-.207	-.003	-.341	-.373	.000.000	-.376	-.082
27	-.154	0.	.015	-.158	-.103	-.161	-.129
28	.136	.038	.449	-.143	-.131	-.161	.004
29	.110	.421	.296	.013	.071	.010	.178
30	.574	.914	.834	.154	.173	.628	.626
31	.379	.767	.548	.285	.133	.453	.422
32	.262	.513	.446	.147	.182	.317	.366
33	.102	.361	.339	.276	.213	.378	.113

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.030	1.102	.309	.568	1.152	1.214	.855
2	.688	.559	-.078	.573	1.193	1.146	.821
3	.522	.342	-.325	.550	1.142	1.111	.641
4	.255	-.073	-.456	.508	.875	.715	.184
5	.072	-.381	-.538	.308	.514	.319	-.040
6	-.155	-.025	-.020	-.156	-.050	-.145	-.021
7	-.116	-.656	-1.060	.208	.441	.421	-.085
8	-1.092	-1.739	-1.677	-.654	-.795	-.871	-.953
9	-1.689	-2.641	-2.664	-1.612	-2.072	-2.013	-1.843
10	-1.239	-1.834	-1.942	-1.511	-1.615	-1.544	-1.353
11	-.927	-1.331	.000.000	-1.216	-1.392	-1.219	-1.045
12	-1.212	-.796	-.708	-.761	-.859	-.718	-.677
13	-.628	-.624	-.521	-.530	-.606	-.584	-.520
14	-.700	-.552	-.498	-.468	-.537	-.487	-.439
15	-.293	.241	.464	.234	.213	.226	-.255
16	-.333	-.244	.216	.219	.215	.124	-.057
17	-.366	-.203	.230	.153	.157	.133	.001
18	-.344	.105	.119	.126	.100	.035	-.003
19	-.498	-.245	-.191	-.038	-.144	-.150	-.170
20	-1.051	-.773	-.651	-.541	-.484	-.526	-.462
21	-1.553	-.951	-.749	-.811	-.769	-.806	-.657
22	-1.452	-.899	-.696	-.736	-.660	-.830	-.673
23	-1.670	-.395	-.246	-.197	-.040	-.136	-.345
24	-.691	.070	.104	.009	.013	-.095	-.095
25	.539	.746	.475	.098	.220	.234	.197
26	.011	-.112	-.092	-.233	.000.000	-.111	-.162
27	-.052	-.035	.349	-.097	-.038	-.111	-.081
28	.249	.659	.527	-.024	-.056	-.074	.134
29	.086	.377	.435	.271	.169	.236	.216
30	.582	.913	.804	.457	.425	.680	.560
31	.391	.805	.577	.538	.462	.576	.402
32	.242	.460	.569	.480	.442	.509	.424
33	.082	.341	.416	.371	.273	.323	-.014

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.961	.843	-.094	.668	1.304	1.303	.748
2	.590	.199	-.824	.561	1.181	1.047	.347
3	.371	-.129	-.916	.476	.975	.795	.236
4	.174	-.625	-.976	.155	.580	.321	-.129
5	-.072	-.694	-1.025	.026	.207	-.062	-.408
6	.084	.074	-.031	-.026	.019	-.021	-.052
7	-.536	-1.040	-1.558	.003	-.026	-.260	-.533
8	-1.334	-2.203	-2.135	-.943	-1.127	-1.304	-1.397
9	-1.787	-2.682	-2.979	-1.918	-2.432	-2.420	-2.125
10	-1.391	-2.078	-2.148	-1.863	-2.052	-2.023	-1.724
11	-.999	-1.389	.000.000	-1.305	-1.568	-1.408	-1.231
12	-1.300	-.829	-.775	-.868	-1.004	-.869	-.782
13	-.774	-.661	-.588	-.586	-.715	-.674	-.634
14	-1.012	-.622	-.528	-.547	-.860	-.645	-.566
15	-.348	-.606	.369	.340	.340	.297	-.430
16	-.494	-.253	.243	.314	.288	.134	-.044
17	-.571	-.234	.215	.353	.228	.163	-.042
18	-.484	.091	.144	.223	.115	.056	-.092
19	-.667	-.260	-.217	-.011	-.147	-.247	-.121
20	-1.338	-.760	-.679	-.591	-.727	-.722	-.535
21	-1.873	-.946	-.803	-.899	-.890	-.850	-.701
22	-2.198	-.875	-.744	-.981	-.823	-.861	-.694
23	-1.793	-.396	-.333	-.308	-.132	-.345	-.405
24	-.774	.004	.018	.085	.045	-.054	-.094
25	.710	.958	.893	.501	.513	.554	.434
26	.123	-.257	.003	-.067	.000.000	-.010	-.241
27	.130	.171	.847	-.046	.045	-.057	.021
28	.335	.695	.608	.426	.076	.011	.380
29	.087	.443	.524	.512	.452	.396	.273
30	.679	.940	.905	.986	.729	.840	.877
31	.397	.871	.678	.711	.728	.625	.619
32	.178	.511	.557	.596	.617	.505	.503
33	.59	.382	.431	.418	.392	.308	.088

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.945	.483	-.605	.896	1.413	1.436	-.008
2	.425	-.337	-1.421	.502	1.074	.930	-.386
3	.196	-.734	-1.768	.345	.830	.715	-.453
4	-.051	-.988	-1.665	.008	.394	.167	-.585
5	-.279	-1.360	-1.867	-.234	-.204	-.408	-.975
6	.110	.040	-.019	.002	-.002	.074	-.128
7	-.771	-1.481	-2.147	-.413	-.475	-.577	-.872
8	-1.739	-2.896	-2.905	-1.436	-1.612	-1.616	-1.871
9	-1.989	-3.193	-3.601	-2.492	-2.998	-2.904	-2.584
10	-1.413	-2.154	-2.297	-2.086	-2.197	-1.995	-1.775
11	-1.050	-1.472	.000.000	-1.525	-1.725	-1.394	-1.247
12	-1.419	-.884	-.809	-.928	-1.071	-.862	-.913
13	-.942	-.749	-.693	-.671	-.833	-.714	-.812
14	-1.211	-.710	-.590	-.600	-.742	-.622	-.668
15	-.556	-.542	.397	.463	.355	.329	-.397
16	-.757	-.209	.301	.466	.350	.247	-.235
17	-.816	-.296	.232	.417	.253	.283	-.136
18	-.770	-.056	.093	.299	.149	.082	-.109
19	-.917	-.314	-.252	-.034	-.240	-.188	-.192
20	-1.721	-.889	-.803	-.780	-.881	-.788	-.620
21	-2.416	-1.098	-.935	-1.045	-1.144	-.923	-.894
22	-2.799	-1.054	-.978	-1.102	-1.043	-.849	-.806
23	-2.160	-.542	-.435	-.423	-.353	-.399	-.491
24	-1.084	-.054	-.033	.127	.053	.011	-.100
25	.474	1.034	.491	.801	.850	.823	.218
26	.120	-.352	.124	-.311	.000.000	.081	-.247
27	.248	.873	.924	.109	.045	.077	.223
28	.541	.715	.723	.783	.206	.313	.367
29	.088	.485	.576	.555	.546	.472	.333
30	.844	.945	.946	1.103	1.132	1.076	.588
31	.339	.755	.719	.793	.782	.745	.542
32	.158	.521	.651	.674	.625	.543	.455
33	.028	.366	.484	.483	.456	.398	.030

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.650	-.206	-1.234	.799	1.194	1.153	-.305
2	.068	-1.206	-2.392	.242	.790	.605	-.753
3	-.110	-1.669	-2.814	.020	.406	.373	-.960
4	-.329	-1.854	-2.451	-.229	-.025	-.108	-1.050
5	-.459	-1.653	-2.111	-.428	-.444	-.664	-1.071
6	.081	.083	-.067	.002	-.027	.012	-.028
7	-.907	-1.712	-2.427	-.699	-.652	-.616	-.874
8	-1.948	-3.341	-3.392	-1.993	-2.036	-1.979	-2.053
9	-2.298	-3.677	-4.246	-3.142	-3.479	-3.172	-2.602
10	-1.686	-2.569	-2.727	-2.580	-2.640	-2.246	-1.833
11	-1.191	-1.511	.000.000	-1.640	-1.800	-1.242	-.951
12	-1.594	-.971	-.860	-1.081	-1.244	-.866	-.764
13	-1.221	-.834	-.722	-.767	-.979	-.730	-.644
14	-1.598	-.814	-.685	-.701	-.923	-.819	-.707
15	-.844	-.681	.402	.483	.340	.319	-.258
16	-1.132	-.224	.267	.529	.328	.243	-.117
17	-1.044	-.333	.143	.423	.240	.183	-.026
18	-1.040	.040	.058	.320	.146	.075	.035
19	-1.259	-.341	-.375	-.057	-.337	-.249	-.205
20	-2.245	-.476	-.918	-.890	-1.057	-.951	-.507
21	-2.427	-1.142	-1.038	-1.172	-1.234	-.935	-.608
22	-3.185	-1.104	-.961	-1.160	-1.155	-1.073	-.831
23	-2.242	-.585	-.471	-.458	-.494	-.551	-.519
24	-1.277	-.138	-.086	.111	.009	-.080	-.110
25	.868	.875	.449	.962	.890	.849	.137
26	-.230	-.041	.339	-.333	.000.000	.104	-.126
27	.394	.934	.943	.407	.063	.056	.343
28	.489	.743	.802	.835	.551	.407	.390
29	-.019	.502	.824	.581	.516	.416	.400
30	.496	.927	1.048	1.184	1.227	.978	.641
31	.247	.733	.776	.854	.838	.711	.490
32	.124	.540	.660	.672	.645	.481	.560
33	-.026	.364	.509	.545	.460	.303	.048

Table 29.- Continued.

(c) $C_{T,s} = 0.60$, $q_s = 21.57$

$\alpha = 35°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.532	-.744	-2.112	.913	1.328	1.200	-.820
2	-.179	-1.748	-3.045	.134	.609	.438	-1.206
3	-.310	-2.100	-3.256	-.134	.277	.134	-1.183
4	-.545	-2.145	-3.139	-.373	-.124	-.324	-1.341
5	-.884	-2.066	-2.563	-.631	-.614	-.744	-1.257
6	.123	.111	-.044	.060	.065	.041	-.170
7	-1.121	-2.095	-2.882	-1.076	-.841	-.733	-1.197
8	-2.144	-3.449	-3.595	-2.328	-2.182	-1.785	-1.890
9	-2.176	-3.759	-4.302	-3.347	-3.442	-2.725	-2.355
10	-1.774	-2.659	-2.894	-2.753	-2.730	-2.052	-1.627
11	-1.270	-1.643	*000.000	-1.824	-1.915	-1.243	-1.049
12	-1.413	-1.012	-.903	-1.098	-1.177	-.769	-.821
13	-1.364	-.873	-.718	-.744	-.883	-.653	-.679
14	-1.212	-.738	-.760	-.702	-.867	-.673	-.670
15	-1.065	-.710	.451	.699	.285	.312	-.409
16	-1.269	-.184	.291	.568	.327	.341	-.162
17	-1.405	-.313	.204	.519	.334	.314	-.019
18	-1.345	.055	.127	.374	.192	.112	-.158
19	-1.536	-.379	-.369	-.037	-.285	-.185	-.193
20	-2.870	-1.043	-.966	-.956	-1.110	-.841	-.617
21	-3.283	-1.191	-.996	-1.235	-1.226	-.934	-.784
22	-3.439	-1.169	-.956	-1.245	-1.298	-1.117	-.879
23	-2.362	-.830	-.546	-.552	-.695	-.783	-.800
24	-1.314	-.182	-.197	.172	.024	-.128	-.270
25	.944	.858	.253	1.211	1.141	.957	-.053
26	-.192	.520	.539	-.469	*000.000	.129	-.165
27	.824	1.019	1.096	.674	.027	.119	.342
28	.462	.807	.858	.886	1.062	.427	.361
29	-.058	.585	.699	.617	.581	.423	.313
30	.477	1.010	1.078	1.315	1.277	1.059	.706
31	.284	.823	.824	.929	.870	.654	.548
32	.150	.652	.669	.720	.700	.448	.357
33	.022	.384	.447	.564	.475	.305	.013

$\alpha = 40°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.281	-1.502	-2.944	.741	1.138	.890	-1.690
2	-.467	-2.766	-4.432	-.216	.364	.036	-1.607
3	-.764	-2.800	-3.994	-.410	-.108	-.307	-1.556
4	-1.003	-2.882	-4.021	-.721	-.454	-.716	-1.424
5	-1.411	-2.345	-2.823	-.888	-.842	-1.033	-1.330
6	.253	.027	-.108	.084	.057	-.010	-.160
7	-1.485	-2.493	-3.293	-1.333	-1.010	-.822	-1.122
8	-2.488	-4.056	-4.099	-2.693	-2.314	-1.801	-1.770
9	-2.566	-4.046	-4.504	-3.665	-3.451	-2.562	-2.036
10	-2.049	-2.974	-3.052	-3.238	-2.901	-1.993	-1.504
11	-1.581	-1.975	*000.000	-2.098	-2.132	-1.191	-.920
12	-1.540	-1.131	-1.015	-1.196	-1.246	-.759	-.687
13	-1.757	-.940	-.867	-.817	-.874	-.642	-.644
14	-2.040	-.861	-.788	-.755	-.810	-.647	-.574
15	-1.208	-.735	.462	.484	.205	.289	-.233
16	-1.423	-.193	.265	.528	.381	.256	-.045
17	-1.448	-.619	.198	.511	.370	.288	-.050
18	-1.349	.022	.055	.328	.232	.111	-.044
19	-1.706	-.475	-.360	-.088	-.244	-.192	-.212
20	-2.494	-1.149	-1.140	-1.038	-1.023	-.827	-.634
21	-3.467	-1.292	-1.142	-1.311	-1.271	-1.019	-.814
22	-3.365	-1.196	-.999	-1.304	-1.217	-1.054	-.792
23	-2.026	-.696	-.611	-.559	-.602	-.614	-.510
24	-1.069	-.308	-.190	.081	.002	-.171	-.306
25	.941	.580	-.093	1.274	1.229	.946	-.434
26	.044	.742	.745	-.459	*000.000	.094	-.138
27	.881	1.044	1.044	1.058	.125	.143	.360
28	.447	.849	.953	.865	1.054	.689	.369
29	-.188	.547	.692	.585	.530	.341	.364
30	.413	1.042	1.100	1.316	1.341	1.157	.675
31	.264	.795	.771	.855	.786	.580	.388
32	.179	.584	.642	.673	.641	.404	.291
33	.099	.327	.432	.530	.442	.236	.148

$\alpha = 45°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-.121	-2.050	-3.422	.543	.995	.466	-2.053
2	-1.107	-3.445	-4.979	-.437	.067	-.304	-2.104
3	-1.234	-3.517	-4.835	-.752	.332	-.563	-1.847
4	-1.474	-3.461	-4.539	-1.073	-.808	-1.131	-1.512
5	-1.964	-2.830	-3.365	-1.171	-1.045	-1.076	-1.129
6	.268	-.049	-.147	.108	.018	.093	-.240
7	-1.584	-2.606	-3.294	-1.553	-1.115	-.833	-1.210
8	-3.048	-4.497	-4.339	-3.047	-2.606	-1.892	-1.812
9	-2.819	-4.216	-4.587	-3.815	-3.625	-2.486	-1.596
10	-2.168	-3.035	-2.921	-3.226	-2.811	-1.782	-1.174
11	-1.497	-1.743	*000.000	-1.904	-1.844	-.904	-.703
12	-1.474	-1.127	-1.002	-1.162	-1.165	-.541	-.525
13	-2.317	-.911	-.792	-.780	-.755	-.486	-.452
14	-2.520	-.933	-.797	-.751	-.701	-.489	-.399
15	-1.249	-.710	.531	.544	.194	.267	0.
16	-1.429	-.152	.356	.568	.382	.316	.030
17	-1.335	-.405	.224	.463	.398	.258	.006
18	-1.440	-.018	.089	.366	.266	.112	-.026
19	-1.595	-.543	-.397	-.131	-.223	-.186	-.176
20	-2.660	-1.202	-1.007	-1.027	-.934	-.711	-.598
21	-3.268	-1.302	-1.166	-1.295	-1.174	-.939	-.753
22	-2.944	-1.137	-1.032	-1.236	-1.100	-1.002	-.737
23	-1.751	-.746	-.554	-.534	-.678	-.723	-.738
24	-.488	-.274	-.099	.118	.009	-.113	-.247
25	.888	.308	-.301	1.301	1.305	.883	-.989
26	.098	.789	.731	-.372	*000.000	.082	-.090
27	.800	1.074	1.137	1.228	.258	.453	.435
28	.384	.828	.883	.870	.970	.475	.391
29	-.088	.591	.685	.612	.478	.381	.372
30	.868	1.063	.860	1.191	1.255	.982	.680
31	.210	.890	.785	.917	.815	.603	.439
32	.115	.592	.663	.722	.637	.519	.394
33	.067	.298	.426	.513	.422	.352	.215

$\alpha = 50°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-.583	-3.014	-4.304	.283	.852	-.262	-2.457
2	-1.664	-4.543	-5.800	-.780	-.121	-.647	-2.105
3	-1.830	-4.640	-5.792	-1.216	-.625	-1.241	-2.226
4	-1.930	-4.003	-5.114	-1.344	-.955	-1.167	-1.639
5	-2.481	-3.442	-3.831	-1.420	-1.220	-1.398	-1.291
6	.210	-.108	-.221	.154	.092	-.012	-.377
7	-1.895	-3.093	-3.833	-1.850	-1.374	-.951	-1.402
8	-3.614	-4.816	-4.316	-3.233	-2.823	-1.857	-1.730
9	-3.152	-4.529	-4.513	-4.077	-3.808	-2.448	-1.383
10	-2.104	-2.934	-2.823	-3.138	-2.689	-1.634	-1.032
11	-1.737	-1.432	*000.000	-1.940	-1.820	-.903	-.688
12	-1.922	-1.219	-1.148	-1.297	-1.153	-.604	-.561
13	-2.245	-.861	-.839	-.758	-.759	-.582	-.519
14	-2.388	-1.024	-.943	-.833	-.763	-.492	-.470
15	-.940	-.564	.397	.429	.136	.263	-.079
16	-1.275	-.154	.288	.513	.328	.330	-.010
17	-1.144	-.555	.132	.385	.308	.280	-.022
18	-1.157	-.099	.013	.298	.148	.034	-.170
19	-1.491	-.506	-.398	-.128	-.232	-.132	-.196
20	-1.901	-1.158	-1.001	-.994	-.901	-.780	-.596
21	-2.558	-1.368	-1.224	-1.308	-1.222	-.882	-.739
22	-2.117	-1.144	-1.074	-1.201	-1.078	-.894	-.651
23	-1.329	-.749	-.719	-.566	-.765	-.740	-.737
24	-.480	-.409	-.216	.037	-.094	-.207	-.296
25	.348	-.074	-.441	1.248	1.317	-.038	-1.429
26	.564	.467	.765	-.120	*000.000	.181	-.225
27	.441	1.017	.984	1.228	.313	.237	.289
28	.219	.805	.774	.856	.883	.308	.330
29	-.069	.562	.584	.603	.493	.363	.333
30	.607	1.047	.830	1.220	1.237	.885	.463
31	.123	.812	.336	.825	.689	.527	.342
32	.062	.549	.557	.743	.621	.452	.413
33	.002	.266	.369	.525	.400	.286	.070

Table 29.- Continued.

(c) $C_{T,s} = 0.60$, $q_s = 21.57$

$\alpha = 55°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-1.633	-4.192	-5.172	-.038	.641	-.858	-2.427
2	-2.040	-5.361	-6.326	-1.177	-.401	-1.112	-1.591
3	-2.065	-5.270	-5.440	-1.380	-.906	-1.352	-1.624
4	-2.194	-4.484	-5.627	-1.624	-1.171	-1.322	-1.158
5	-3.061	-3.892	-3.843	-1.678	-1.467	-1.322	-1.208
6	-.238	-.375	-.478	.094	-.030	-.025	-.488
7	-1.497	-3.156	-3.857	-1.782	-1.350	-.817	-1.086
8	-3.140	-4.498	-4.138	-3.185	-2.846	-1.781	-1.396
9	-3.234	-4.916	-4.625	-4.165	-4.005	-2.110	-1.054
10	-2.202	-3.226	-2.762	-3.403	-2.890	-1.623	-.937
11	-1.415	-1.407	*000.000	-1.994	-1.761	-.823	-.578
12	-1.451	-1.065	-1.047	-1.144	-1.063	-.441	-.427
13	-1.588	-.960	-.931	-.863	-.896	-.479	-.408
14	-1.684	-.872	-.839	-.736	-.690	-.488	-.439
15	-.875	-.575	.413	.407	.046	.273	.171
16	-.477	-.036	.334	.483	.318	.291	.050
17	-.888	-.566	.165	.442	.250	.283	.010
18	-.821	-.105	.024	.273	.210	.163	-.054
19	-1.034	-.519	-.363	-.184	-.293	-.248	-.329
20	-1.802	-1.123	-.996	-1.015	-.949	-.720	-.440
21	-1.941	-1.146	-1.156	-1.213	-1.067	-.613	-.554
22	-1.780	-1.177	-1.099	-1.275	-1.074	-.839	-.672
23	-.471	-.730	-.647	-.487	-.643	-.445	-.480
24	-.820	-.366	-.142	.029	-.077	-.137	-.175
25	-.581	-.728	-1.264	1.147	1.316	-.386	-1.340
26	-.345	.756	.577	.147	*000.000	.265	-.205
27	.072	.978	.747	1.272	.435	.375	.351
28	.084	.670	.667	.852	.875	.347	.401
29	-.083	.475	.573	.561	.496	.394	.377
30	.214	.998	.585	1.291	1.248	.826	.494
31	.101	.692	.568	.864	.675	.477	.477
32	.084	.530	.502	.711	.547	.396	.351
33	.068	.224	.428	.440	.327	.312	.141

$\alpha = 60°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-2.394	-5.324	-6.243	-.395	.478	-2.094	-2.592
2	-2.851	-6.795	-7.727	-1.716	-.795	-2.300	-1.838
3	-2.800	-6.633	-7.234	-2.097	-1.206	-1.915	-1.556
4	-2.348	-5.384	-6.097	-2.191	-1.572	-1.793	-1.347
5	-1.068	-4.325	-4.337	-1.964	-1.553	-1.307	-1.297
6	-.579	-.644	-.749	.101	.016	-.129	-.650
7	-2.271	-3.634	-3.988	-2.129	-1.432	-1.129	-1.480
8	-3.187	-5.054	-3.971	-3.456	-2.938	-1.576	-1.181
9	-2.938	-4.989	-4.139	-4.372	-3.923	-1.857	-1.060
10	-2.229	-3.236	-2.753	-3.651	-2.910	-1.371	-.859
11	-1.446	-1.416	*000.000	-2.109	-1.850	-.719	-.679
12	-1.675	-1.147	-1.219	-1.331	-1.097	-.652	-.618
13	-1.424	-.983	-1.014	-.874	-.810	-.567	-.686
14	-1.404	-.928	-.948	-.833	-.770	-.396	-.379
15	-.774	-.546	.270	.351	.307	.326	-.197
16	-.529	-.100	.217	.437	.326	.277	-.053
17	-.963	-.544	.072	.418	.269	.195	-.031
18	-.825	-.145	-.075	.242	.161	.034	-.114
19	-.925	-.515	-.432	-.109	-.191	-.079	-.211
20	-1.437	-1.041	-.993	-1.160	-.977	-.554	-.556
21	-1.423	-1.100	-1.147	-1.327	-1.044	-.785	-.658
22	-1.426	-1.063	-1.153	-1.309	-1.224	-.764	-.684
23	-.720	-.681	-.613	-.515	-.540	-.433	-.519
24	-.504	-.307	-.142	.013	-.087	-.193	-.244
25	-1.082	-1.445	-2.644	1.053	1.374	-.951	-1.617
26	-.767	.491	.474	.207	*000.000	.177	-.268
27	-.141	.622	.414	1.212	.634	.183	.221
28	.062	.497	.445	.878	.905	.399	.419
29	-.12	.468	.650	.542	.490	.439	.400
30	.134	.779	.859	1.371	1.293	.680	.502
31	.084	.531	.642	.765	.635	.501	.441
32	.137	.473	.593	.622	.562	.453	.410
33	.172	.230	.391	.437	.409	.351	.211

$\alpha = 65°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-2.869	-6.756	-7.706	-.485	.441	-2.030	-1.934
2	-3.100	-7.693	-9.104	-2.218	-1.042	-2.263	-1.516
3	-2.858	-6.930	-7.932	-2.043	-1.291	-1.929	-1.101
4	-.773	-5.673	-6.608	-2.396	-1.656	-1.799	-1.202
5	-2.490	-4.247	-4.643	-2.141	-1.655	-1.409	-1.253
6	-.705	-1.124	-.947	.015	-.080	-.333	-.581
7	-2.113	-3.520	-3.990	-2.178	-1.446	-.945	-1.190
8	-2.326	-4.307	-3.787	-3.659	-3.027	-1.374	-1.022
9	-2.108	-4.318	-4.184	-4.337	-4.005	-1.456	-.870
10	-1.499	-2.302	-2.240	-3.371	-2.534	-.934	-.744
11	-1.494	-1.440	*000.000	-2.150	-1.893	-.611	-.616
12	-1.517	-1.192	-1.112	-1.239	-1.067	-.543	-.555
13	-1.116	-.993	-.940	-.937	-.820	-.447	-.420
14	-1.194	-.968	-.858	-.882	-.795	-.528	-.534
15	-.585	-.553	.277	.198	.221	.280	-.108
16	-.857	-.195	.184	.352	.256	.208	-.032
17	-.844	-.508	.081	.278	.171	.195	-.061
18	-.837	-.132	-.036	.217	.150	.043	-.091
19	-.761	-.522	-.424	-.241	-.255	-.190	-.189
20	-1.472	-1.092	-1.080	-1.062	-.921	-.582	-.474
21	-1.342	-1.034	-1.101	-1.103	-.960	-.491	-.474
22	-.886	-.943	-1.044	-.976	-.802	-.432	-.387
23	-.858	-.631	-.565	-.436	-.418	-.338	-.322
24	-.424	-.237	-.095	.024	.008	-.165	-.169
25	-1.552	-4.266	-3.763	1.066	1.369	-1.075	-1.717
26	-.812	.031	.275	.233	*000.000	.172	-.250
27	-.260	.303	.505	1.276	.543	.237	.250
28	.054	.331	.613	.766	.694	.403	.379
29	.017	.205	.562	.383	.406	.382	.319
30	.091	.595	.709	1.171	1.059	.565	.413
31	.113	.537	.480	.642	.470	.406	.374
32	.167	.414	.398	.447	.426	.395	.344
33	.214	.225	.323	.391	.316	.317	.239

Table 29.- Continued.

(d) $C_{T,s} = 0.30$, $q_s = 19.03$

$\alpha = 5°$

TIME NO	WING STATIONS 1	2	3	4	5	6	7
1	.725	1.002	.437	.228	.749	.731	.733
2	.464	1.212	.743	.730	1.275	1.281	1.139
3	.872	1.074	.749	.713	1.250	1.210	.972
4	.638	.740	.543	.729	1.109	.992	.829
5	.443	.358	.274	.532	.796	.675	.463
6	-.510	-.342	-.357	-.415	-.342	-.525	-.674
7	-.071	.050	-.340	.189	.476	.449	.306
8	-.947	-1.100	-1.097	-.744	-.634	-.607	-.642
9	-1.329	-1.882	-2.247	-1.819	-1.814	-1.721	-1.662
10	-1.007	-1.476	-1.743	-1.587	-1.458	-1.357	-1.346
11	-.494	-1.254	*000.000	-1.249	-1.320	-1.139	-1.141
12	-1.294	-.786	-.747	-.770	-.849	-.784	-.687
13	-.426	-.477	-.533	-.466	-.555	-.500	-.490
14	-.545	-.561	-.546	-.499	-.551	-.477	-.523
15	-.066	-.150	.071	-.011	-.024	-.211	-.148
16	-.091	-.024	-.001	-.059	-.058	-.163	-.188
17	-.098	-.044	.016	-.036	-.058	-.088	-.133
18	-.120	.007	-.035	-.057	-.111	-.138	-.129
19	-.195	-.164	-.192	-.112	-.141	-.128	-.205
20	-.581	-.449	-.447	-.248	-.327	-.309	-.391
21	-.477	-.740	-.745	-.525	-.430	-.394	-.585
22	-.945	-.582	-.538	-.268	-.418	-.381	-.514
23	-.674	-.163	-.173	-.138	-.155	-.199	-.201
24	-.815	-.113	-.104	-.142	-.136	-.152	-.188
25	-.097	.045	-.268	-.490	-.245	-.412	-.337
26	-.731	-.323	-.379	-.503	*000.000	-.629	.168
27	-.463	-.240	-.245	-.323	-.345	-.382	-.483
28	-.498	-.333	-.373	-.317	-.376	-.351	-.380
29	.102	.038	.012	-.204	-.109	-.071	-.081
30	.504	.451	.258	.002	-.027	.058	.231
31	.325	.414	.283	.051	.018	.174	.187
32	.202	.413	.347	.062	.026	.229	.087
33	.077	.372	.336	.199	.105	.268	-.072

$\alpha = 10°$

TIME NO	WING STATIONS 1	2	3	4	5	6	7
1	.981	1.089	.668	.591	1.059	1.036	1.071
2	.821	.974	.681	.718	1.298	1.176	1.035
3	.706	.760	.441	.587	1.174	1.058	.904
4	.424	.44 4	.210	.455	.819	.673	.494
5	.197	-.028	-.179	.079	.342	.229	.136
6	-.292	-.124	-.225	-.119	-.169	-.278	-.341
7	-.472	-.232	-.590	-.113	.377	.328	.206
8	-1.046	-1.632	-1.652	-1.288	-1.184	-1.160	-1.077
9	-1.646	-2.363	-2.741	-2.285	-2.399	-2.237	-2.050
10	-1.165	-1.830	-2.049	-2.088	-1.920	-1.799	-1.608
11	-.933	-1.326	*000.000	-1.425	-1.548	-1.385	-1.231
12	-1.392	-.884	-.943	-.942	-1.028	-.916	-.859
13	-.553	-.658	-.558	-.531	-.658	-.646	-.536
14	-.723	-.610	-.551	-.489	-.603	-.610	-.427
15	-.262	-.282	.211	.118	.134	-.016	-.130
16	-.315	-.046	.178	.095	.056	-.009	-.089
17	-.315	-.231	.163	.104	.058	.084	-.060
18	-.335	.055	.082	0.	.011	-.052	.036
19	-.461	-.252	-.315	-.088	-.246	-.306	-.125
20	-.881	-.695	-.699	-.382	-.442	-.661	-.463
21	-1.467	-.966	-.817	-.715	-.659	-.852	-.642
22	-1.528	-.970	-.754	-.663	-.625	-.898	-.772
23	-1.496	-.308	-.277	-.102	-.138	-.385	-.235
24	-.765	.052	.105	-.064	-.059	.025	-.124
25	.230	.421	.121	.042	.097	.102	.159
26	-.345	-.152	-.269	-.136	*000.000	-.251	.076
27	-.297	-.148	-.222	-.124	-.140	-.252	.024
28	-.012	-.164	.141	-.078	-.128	-.111	.153
29	.075	.355	.321	.024	.125	.124	.286
30	.561	.693	.786	.246	.263	.796	.582
31	.384	.593	.533	.281	.291	.525	.362
32	.173	.458	.448	.241	.341	.402	.382
33	.096	.347	.414	.264	.295	.331	.108

$\alpha = 15°$

TIME NO	WING STATIONS 1	2	3	4	5	6	7
1	.896	.944	.496	.739	1.292	1.220	1.052
2	.492	.401	.007	.495	1.060	.853	.639
3	.414	.192	-.146	.252	.850	.700	.477
4	.069	-.302	-.536	-.078	.437	.241	-.008
5	-.100	-.534	-.859	-.292	-.035	-.193	-.367
6	.029	-.092	-.275	-.106	-.061	-.115	-.157
7	-.365	-.987	-1.629	-.701	-.495	-.585	-.807
8	-1.473	-2.248	-2.377	-1.794	-1.695	-1.667	-1.843
9	-1.885	-2.737	-3.308	-2.806	-3.011	-2.841	-2.781
10	-1.523	-2.277	-2.639	-2.657	-2.566	-2.381	-2.255
11	-1.173	-1.452	*000.000	-1.817	-1.995	-1.766	-1.696
12	-1.693	-.990	-.903	-1.083	-1.225	-1.096	-1.069
13	-.843	-.844	-.762	-.779	-.944	-.894	-.881
14	-.991	-.734	-.677	-.669	-.784	-.748	-.688
15	-.410	-.379	.242	.345	.363	.346	-.465
16	-.520	-.198	.148	.242	.206	.181	-.179
17	-.544	-.283	.116	.223	.158	.147	-.020
18	-.554	.029	.056	.125	.044	-.020	-.102
19	-.697	-.330	-.324	-.155	-.294	-.308	-.260
20	-1.297	-.844	-.741	-.666	-.766	-.809	-.744
21	-1.872	-1.077	-.940	-.927	-1.056	-.977	-.882
22	-2.132	-.985	-.828	-.881	-.879	-.889	-.844
23	-1.761	-.303	-.314	-.221	-.266	-.349	-.552
24	-.423	-.031	-.024	-.015	-.026	-.058	-.166
25	.556	.809	.602	.487	.648	.694	.668
26	-.122	-.121	-.552	-.135	*000.000	-.125	-.070
27	-.110	-.022	.096	-.121	-.011	-.123	.171
28	.253	.508	.417	.266	.024	.169	.340
29	.040	.352	.335	.418	.433	.428	.329
30	.469	.850	.813	.787	.630	.811	.777
31	.359	.683	.599	.652	.723	.679	.547
32	.158	.449	.519	.531	.569	.525	.483
33	.037	.338	.371	.339	.378	.370	-.002

$\alpha = 20°$

TIME NO	WING STATIONS 1	2	3	4	5	6	7
1	.789	.553	-.042	.673	1.325	1.124	.720
2	.343	-.090	-.665	.081	.749	.471	.103
3	.211	-.517	-1.137	-.192	.403	.141	-.318
4	-.111	-.913	-1.428	-.646	-.111	-.335	-.701
5	-.331	-1.128	-1.464	-.802	-.482	-.764	-.887
6	-.067	-.018	-.174	-.159	-.031	-.034	-.072
7	-.885	-1.559	-2.273	-1.288	-.999	-1.074	-1.250
8	-1.790	-2.866	-2.965	-2.426	-2.307	-2.309	-2.444
9	-2.210	-3.500	-4.173	-3.655	-3.896	-3.675	-3.595
10	-1.649	-2.537	-2.931	-3.059	-2.981	-2.804	-2.695
11	-1.181	-1.627	*000.000	-1.778	-2.040	-1.820	-1.767
12	-1.642	-1.035	-.992	-1.094	-1.291	-1.187	-1.138
13	-1.102	-.939	-.851	-.815	-1.014	-.994	-.894
14	-1.371	-.818	-.722	-.745	-.882	-.852	-.735
15	-.821	-.563	.386	.457	.395	.382	-.523
16	-.792	-.278	.238	.428	.304	.253	-.129
17	-.902	-.384	.115	.331	.209	.200	-.052
18	-.798	-.015	.090	.257	.116	.034	-.109
19	-.927	-.349	-.288	-.121	-.344	-.327	-.267
20	-1.705	-.922	-.777	-.812	-.947	-.935	-.758
21	-2.536	-1.159	-.978	-.984	-1.136	-1.026	-.949
22	-2.923	-1.095	-.922	-1.037	-1.004	-.959	-.995
23	-2.476	-.571	-.424	-.347	-.299	-.410	-.605
24	-1.181	-.093	.003	.083	.067	-.058	-.150
25	.798	.959	.746	.862	1.027	.943	.705
26	.078	-.503	-.016	-.355	*000.000	.012	-.073
27	.222	.491	.772	.322	.135	.084	.373
28	.660	.624	.615	.669	.399	.725	.550
29	.048	.379	.475	.502	.555	.503	.430
30	.587	.950	.956	1.208	1.116	1.096	1.031
31	.279	.715	.660	.885	.864	.815	.715
32	.162	.479	.535	.613	.616	.547	.522
33	.044	.324	.466	.455	.470	.416	.089

$\alpha = 25°$

TIME NO	WING STATIONS 1	2	3	4	5	6	7
1	.517	-.118	-.912	.370	1.029	.876	-.241
2	-.031	-1.201	-2.149	-.528	.264	.008	-.794
3	-.085	-1.494	-2.334	-.824	-.125	-.278	-1.023
4	-.291	-1.795	-2.645	-1.264	-.662	-.997	-1.450
5	-.627	-1.663	-2.050	-1.346	-1.172	-1.329	-1.569
6	-.057	-.048	-.226	-.085	-.035	-.041	-.065
7	-1.184	-1.974	-2.968	-1.686	-1.364	-1.393	-1.601
8	-2.028	-3.444	-3.622	-3.011	-2.941	-2.919	-3.069
9	-2.267	-3.787	-4.720	-4.114	-4.394	-4.291	-4.178
10	-1.830	-2.869	-3.303	-3.553	-3.422	-3.190	-3.030
11	-1.357	-1.847	*000.000	-2.115	-2.431	-2.201	-2.148
12	-1.928	-1.218	-1.160	-1.257	-1.447	-1.281	-1.231
13	-1.634	-1.040	-.894	-.879	-1.070	-.992	-.971
14	-1.902	-.975	-.825	-.850	-.968	-.922	-.921
15	-.991	-.559	.455	.517	.332	.359	-.426
16	-1.363	-.246	.307	.573	.402	.355	-.301
17	-1.267	-.388	.256	.522	.353	.379	-.246
18	-1.184	.014	.118	.362	.189	.133	-.194
19	-1.500	-.446	-.328	-.118	-.396	-.383	-.398
20	-2.340	-1.113	-.934	-.239	-1.208	-1.118	-.931
21	-3.334	-1.194	-.965	-1.015	-1.113	-.962	-.810
22	-3.461	-1.220	-.918	-1.060	-1.055	-.982	-.967
23	-2.675	-.668	-.454	-.405	-.363	-.454	-.536
24	-1.415	-.115	-.044	.055	.047	-.022	-.124
25	.491	.473	.735	1.141	1.288	1.229	.656
26	-.172	-.070	.217	-.109	*000.000	-.505	.045
27	.475	.483	1.009	.863	.257	.390	.691
28	.442	.724	.784	.891	1.008	.857	.588
29	.060	.472	.606	.572	.569	.564	.462
30	.437	.926	.977	1.278	1.298	1.200	.991
31	.267	.772	.760	.958	.934	.862	.829
32	.141	.568	.577	.766	.741	.633	.678
33	.034	.362	.442	.543	.526	.444	.083

$\alpha = 30°$

TIME NO	WING STATIONS 1	2	3	4	5	6	7
1	.203	-1.226	-2.278	.045	.591	.479	-.987
2	-.481	-2.570	-3.963	-1.344	-.402	-.548	-1.739
3	-.633	-2.819	-3.996	-1.746	-1.025	-.994	-1.977
4	-.918	-2.772	-3.859	-2.068	-1.573	-1.692	-2.260
5	-1.267	-2.325	-2.893	-1.805	-1.618	-1.790	-1.979
6	.176	-.067	-.253	-.058	.048	-.104	-.322
7	-1.498	-2.848	-4.013	-2.362	-2.078	-2.190	-2.505
8	-2.851	-4.076	-4.391	-3.500	-3.544	-3.377	-3.511
9	-2.939	-4.329	-5.330	-4.631	-5.037	-4.619	-4.366
10	-1.999	-3.101	-3.585	-3.908	-3.726	-3.423	-3.210
11	-1.436	-2.042	*000.000	-2.131	-2.501	-2.033	-1.882
12	-2.034	-1.290	-1.198	-1.320	-1.517	-1.302	-1.180
13	-1.579	-1.058	-.867	-.931	-1.055	-.982	-.920
14	-2.329	-.961	-.757	-.774	-.849	-.858	-.783
15	-1.328	-.654	.477	.522	.326	.353	-.563
16	-1.593	-.244	.236	.457	.331	.299	-.314
17	-1.576	-.507	.228	.478	.328	.294	-.241
18	-1.635	-.043	.084	.329	.258	.087	-.272
19	-1.900	-.560	-.407	-.218	-.420	-.383	-.411
20	-2.474	-1.158	-.922	-.984	-1.040	-1.060	-.746
21	-4.019	-1.541	-1.180	-1.167	-1.338	-1.249	-.968
22	-3.849	-1.395	-1.003	-1.062	-1.068	-1.011	-.781
23	-2.668	-.743	-.539	-.475	-.432	-.575	-.641
24	-1.526	-.238	-.086	-.023	.037	-.097	-.171
25	.277	.592	.212	1.282	1.410	1.240	.417
26	-.074	.452	.344	.010	*000.000	-.391	.009
27	.790	.953	1.069	1.308	.972	.913	.705
28	.614	.714	.833	.913	.989	.834	.626
29	.015	.504	.660	.633	.641	.574	.529
30	.367	1.033	1.096	1.414	1.404	1.288	1.045
31	.229	.810	.731	.993	.931	.827	.842
32	.183	.626	.679	.810	.757	.650	.728
33	.041	.342	.473	.558	.567	.426	.169

Table 29. - Concluded.

(d) $C_{T,S} = 0.30$, $q_S = 19.03$

$\alpha = 35°$

TIME NO	WING STATIONS 1	2	3	4	5	6	7
1	.068	-2.021	-3.070	-.867	.526	-.500	-1.324
2	-.909	-3.497	-4.881	-1.707	-.832	-.837	-2.197
3	-1.034	-3.486	-4.866	-2.043	-1.439	-1.371	-2.322
4	-1.316	-3.569	-4.912	-2.371	-1.857	-1.847	-2.366
5	-1.445	-2.982	-3.818	-2.086	-1.946	-1.933	-1.976
6	.394	-.003	-.198	.168	.095	.137	-.199
7	-1.669	-3.034	-4.114	-2.326	-2.046	-1.867	-2.293
8	-2.040	-4.623	-4.939	-3.782	-3.831	-3.243	-3.357
9	-2.048	-4.664	-5.858	-4.685	-5.038	-4.129	-3.887
10	-2.176	-3.365	-3.928	-4.098	-3.744	-3.008	-2.620
11	-1.459	-2.076	∗000.000	-2.198	-2.451	-1.924	-1.743
12	-1.438	-1.228	-1.145	-1.236	-1.316	-.976	-.936
13	-1.480	-1.208	-.996	-.975	-1.048	-.936	-.827
14	-1.042	-1.142	-.878	-.948	-.930	-.854	-.751
15	-1.441	-.886	.512	.597	.417	.364	-.326
16	-1.474	-.235	.303	.519	.394	.300	-.250
17	-1.471	-.514	.225	.479	.400	.408	-.083
18	-1.734	-.039	.044	.334	.202	.108	-.225
19	-2.030	-.512	-.933	-.184	-.333	-.339	-.410
20	-1.327	-1.303	-1.068	-1.084	-1.153	-1.086	-.838
21	-1.467	-1.783	-1.294	-1.253	-1.415	-1.288	-1.089
22	-1.450	-1.588	-1.169	-1.147	-1.142	-1.101	-.871
23	-2.598	-.960	-.834	-.526	-.503	-.715	-.845
24	-1.302	-.261	-.080	.012	.023	-.063	-.198
25	.774	.044	-.349	1.323	1.432	1.313	-.024
26	.285	.766	.868	.176	∗000.000	-.159	.107
27	.829	1.089	1.094	1.446	1.406	1.122	.781
28	.512	.782	.920	.962	.997	.874	.641
29	.650	.606	.705	.750	.759	.705	.665
30	.455	.991	.931	1.261	1.321	1.226	.943
31	.329	.914	.802	1.104	1.042	.950	.864
32	.154	.600	.525	.763	.734	.615	.613
33	.124	.390	.500	.614	.589	.441	.225

$\alpha = 40°$

TIME NO	WING STATIONS 1	2	3	4	5	6	7
1	-.598	-3.831	-5.131	-.853	-.172	-.231	-2.833
2	-1.588	-5.178	-6.890	-2.598	-1.674	-1.768	-3.501
3	-1.793	-5.360	-6.858	-3.129	-2.428	-2.278	-3.492
4	-.144	-.311	-.484	.058	-.005	-.052	-.368
5	-2.883	-3.935	-4.727	-2.883	-2.605	-2.566	-2.618
6	∗000.000	∗000.000	∗000.000	∗000.000	∗000.000	∗000.000	∗000.000
7	-1.978	-3.385	-4.500	-2.623	-2.299	-1.893	-2.219
8	-3.409	-5.203	-5.342	-4.190	-4.209	-3.433	-3.427
9	-3.461	-5.417	-6.271	-5.154	-5.602	-4.470	-3.946
10	-2.377	-3.445	-3.744	-3.785	-3.827	-3.099	-2.629
11	-1.749	-2.234	∗000.000	-2.322	-2.454	-1.721	-1.485
12	-2.081	-1.464	-1.366	-1.420	-1.449	-1.076	-1.000
13	-2.592	-1.341	-1.139	-1.095	-1.117	-.922	-.859
14	-3.140	-1.213	-.999	-.922	-.971	-.821	-.752
15	-1.496	-.747	.441	.536	.339	.376	-.304
16	-1.724	-.237	.396	.607	.408	.384	-.050
17	-1.735	-.628	.216	.486	.328	.393	-.059
18	-1.558	-.102	.012	.268	.183	.148	-.130
19	-2.008	-.665	-.504	-.237	-.366	-.264	-.408
20	-3.478	-1.405	-1.265	-1.190	-1.197	-1.169	-.966
21	-3.695	-1.715	-1.382	-1.222	-1.413	-1.260	-1.039
22	-3.717	-1.465	-1.175	-1.175	-1.312	-1.223	-1.041
23	-2.185	-.867	-.703	-.511	-.578	-.701	-.809
24	-1.200	-.317	-.157	-.085	-.054	-.141	-.275
25	.656	-.467	-1.371	1.050	1.305	1.203	-.810
26	.343	.756	.764	.526	∗000.000	.092	.054
27	.736	1.058	1.012	1.422	1.417	1.022	.734
28	.451	.837	.839	.939	.954	.673	.631
29	.624	.665	.769	.725	.692	.611	.601
30	.331	1.127	.850	1.415	1.448	1.348	.994
31	.211	.879	.572	.944	.894	.764	.674
32	.125	.598	.613	.733	.666	.547	.528
33	.053	.337	.467	.532	.459	.390	.227

$\alpha = 45°$

TIME NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.129	-5.075	-7.270	-1.775	-.848	-2.219	-3.838
2	-2.149	-6.272	-8.035	-3.684	-2.646	-3.325	-4.456
3	-2.357	-6.745	-8.030	-4.044	-3.193	-3.502	-4.397
4	-2.120	-5.503	-6.548	-3.694	-3.087	-3.327	-3.665
5	-1.108	-4.214	-4.877	-3.132	-2.835	-2.733	-2.641
6	.078	-.476	-.867	.046	.065	-.125	-.494
7	-2.220	-3.470	-4.423	-2.661	-2.425	-1.821	-2.142
8	-4.028	-6.842	-6.506	-4.606	-4.686	-3.556	-3.631
9	-3.823	-5.342	-6.515	-4.907	-5.458	-4.042	-3.459
10	-2.678	-3.673	-3.679	-3.845	-3.851	-2.780	-2.298
11	-1.510	-2.173	∗000.000	-2.382	-2.379	-1.589	-1.395
12	-2.000	-1.483	-1.399	-1.409	-1.395	-.936	-.913
13	-2.447	-1.132	-1.071	-.946	-.946	-.789	-.801
14	-2.709	-1.328	-1.119	-1.035	-1.069	-.861	-.816
15	-1.114	-.684	.529	.530	.316	.343	-.124
16	-1.302	-.214	.352	.494	.328	.353	-.031
17	-1.247	-.664	.220	.439	.340	.359	-.004
18	-1.260	-.184	.071	.314	.159	.052	-.153
19	-1.718	-.763	-.513	-.303	-.419	-.340	-.395
20	-2.806	-1.444	-1.141	-1.136	-1.209	-.976	-.869
21	-2.862	-1.545	-1.243	-1.132	-1.380	-1.105	-.952
22	-2.695	-1.448	-1.135	-.986	-1.138	-1.056	-.911
23	-1.838	-.907	-.708	-.531	-.565	-.633	-.788
24	-1.210	-.471	-.237	-.166	-.101	-.187	-.348
25	.457	-1.672	-3.499	.618	1.197	-.530	-1.582
26	.127	.747	.862	.855	∗000.000	.497	-.007
27	.653	1.042	.818	1.357	1.334	.723	.647
28	.462	.912	.809	1.038	.979	.685	.674
29	.362	.626	.647	.704	.675	.607	.604
30	.367	1.144	.785	1.438	1.424	1.123	1.028
31	.228	.928	.664	1.015	.894	.813	.767
32	.144	.609	.664	.721	.650	.516	.558
33	.109	.434	.447	.491	.420	.381	.264

$\alpha = 50°$

TIME NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.882	-6.431	-8.599	-2.743	-1.527	-3.822	-4.586
2	-2.564	-7.462	-8.781	-4.411	-3.108	-3.922	-4.765
3	-2.675	-6.915	-8.139	-4.284	-3.458	-3.682	-4.243
4	-2.461	-6.646	-7.174	-4.827	-4.004	-3.857	-4.087
5	-1.324	-5.117	-5.140	-3.841	-3.383	-3.058	-2.968
6	-.238	-.664	-1.035	-.025	-.036	-.247	-.656
7	-2.602	-4.122	-4.946	-3.153	-2.849	-2.223	-2.317
8	-3.815	-5.949	-6.740	-4.696	-4.736	-3.370	-3.297
9	-3.867	-5.619	-6.865	-5.309	-5.884	-3.953	-3.404
10	-2.552	-3.350	-3.899	-3.876	-2.600	-2.262	
11	-1.463	-1.979	∗000.000	-2.357	-2.403	-1.438	-1.244
12	-2.110	-1.450	-1.500	-1.482	-1.444	-.944	-.883
13	-2.118	-1.343	-1.184	-1.089	-1.127	-.843	-.814
14	-1.963	-1.288	-1.085	-1.004	-1.005	-.830	-.800
15	-.947	-.638	.492	.463	.340	.396	-.205
16	-1.080	-.205	.266	.455	.283	.175	-.096
17	-1.097	-.660	.191	.350	.292	.258	.027
18	-.944	-.134	0.	.235	.102	.018	-.020
19	-1.390	-.724	-.517	-.508	-.430	-.384	-.319
20	-2.247	-1.443	-1.207	-1.232	-1.205	-1.021	-.850
21	-2.450	-1.426	-1.250	-1.167	-1.309	-1.049	-1.009
22	-2.088	-1.243	-1.103	-1.015	-1.136	-.969	-.994
23	-1.327	-.811	-.700	-.504	-.504	-.589	-.725
24	-.915	-.600	-.278	-.130	-.085	-.170	-.271
25	-.141	-2.104	-4.882	.225	.891	-1.457	-2.076
26	-.471	.617	.808	.903	∗000.000	.554	.002
27	.104	1.034	.867	1.344	1.380	.617	.637
28	.055	.940	.844	1.041	.951	.670	.671
29	.062	.678	.710	.664	.647	.615	.674
30	.323	1.084	.775	1.335	1.213	.854	.897
31	.140	.832	.728	.859	.752	.620	.676
32	.202	.634	.854	.690	.609	.501	.577
33	.204	.362	.562	.521	.439	.419	.301

$\alpha = 55°$

TIME NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.858	-5.783	-6.867	-3.179	-2.038	-4.720	-5.382
2	-1.886	-6.497	-5.899	-4.788	-3.588	-4.970	-5.380
3	-1.930	-6.506	-5.327	-5.209	-4.336	-5.047	-5.339
4	-.443	-5.172	-4.737	-4.550	-3.875	-4.037	-4.074
5	-1.652	-3.660	-3.147	-3.615	-3.373	-3.062	-2.926
6	-.254	-.590	-.495	.010	-.139	-.362	-.741
7	-1.428	-2.310	-2.639	-2.703	-2.682	-2.309	-2.383
8	-1.799	-3.817	-2.324	-4.222	-4.562	-3.149	-3.038
9	-1.170	-2.876	-1.310	-4.114	-5.067	-3.368	-3.136
10	-1.675	-1.481	-.943	-2.991	-3.349	-2.364	-2.139
11	-.907	-.988	∗000.000	-1.765	-2.213	-1.266	-1.204
12	-.950	-1.061	-.947	-1.005	-.977	-.811	-.781
13	-1.068	-.905	-.806	-.932	-.825	-.699	-.717
14	-.748	-.774	-.676	-.936	-.964	-.697	-.645
15	-.484	-.594	.453	.456	.335	.455	-.188
16	-.481	-.071	.222	.347	.292	.220	-.037
17	-.565	-.479	.092	.320	.209	.206	-.058
18	-.438	-.036	-.092	.157	.054	.045	-.051
19	-.540	-.512	-.513	-.528	-.463	-.370	-.358
20	-.628	-.484	-.702	-.915	-.801	-.657	-.652
21	-.988	-1.109	-1.139	-1.075	-1.033	-.835	-.887
22	-.981	-.863	-1.000	-1.009	-.754	-.776	-.848
23	-.647	-.472	-.463	-.532	-.431	-.512	-.560
24	-.752	-.692	-.667	-.268	-.128	-.232	-.232
25	-.502	-2.447	-4.899	-.183	.747	-2.329	-2.619
26	-.161	.497	.504	1.024	∗000.000	.464	-.058
27	.308	.635	.624	1.224	1.139	.605	.565
28	∗000.000	∗000.000	∗000.000	∗000.000	∗000.000	∗000.000	∗000.000
29	.222	.544	.744	.632	.602	.644	.658
30	.394	.894	.740	1.147	1.126	.865	.750
31	.258	.691	.653	.809	.693	.635	.675
32	.259	.490	.550	.556	.535	.501	.543
33	.201	.219	.284	.312	.357	.370	.258

Table 30. - Pressure coefficients for wing with propeller rotation up at tip, full-span slat and fences, $\delta_f = 40°$.

(a) $C_{T,s} = 0.90$, $q_s = 20.19$

$\alpha = 5°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	2.065	2.016	1.608	-1.988	.124	.886	.359
2	2.182	2.234	1.849	-.537	1.684	2.413	.867
3	1.725	1.794	1.538	.209	1.951	2.450	.795
4	1.243	1.276	1.169	1.124	2.230	2.406	.545
5	.696	.734	.998	1.748	2.138	2.081	.400
6	-.229	-.204	-.275	-.487	-.305	.589	-.273
7	.310	.452	.184	1.583	1.663	1.680	.706
8	-1.010	-1.507	-1.315	.840	.573	.521	-.261
9	-1.813	-2.556	-2.471	-.140	-.849	-.758	-.790
10	-1.215	-2.299	-2.570	-.858	-1.018	-.715	-.731
11	-.680	-1.558	.000,000	-.993	-1.161	-.550	-.559
12	-2.048	-1.258	-1.315	-1.031	-1.079	-.290	-.504
13	-.625	-1.060	-1.155	-.798	-.764	-.190	-.246
14	-.587	-.997	-1.065	-.860	-.688	-.168	-.301
15	-.182	-.731	.548	-.163	-.065	.247	.030
16	-.113	-1.118	.286	-.375	-.073	.231	.031
17	-.692	-2.647	-.948	-.680	-.237	.165	-.168
18	-1.147	-2.053	-2.171	-1.270	-.506	-.150	-.475
19	-1.690	-2.643	-2.836	-2.068	-.892	-.459	-.670
20	-1.809	-2.870	-2.753	-2.329	-.937	-.320	-.660
21	-1.639	-2.232	-2.111	-1.796	-.342	-.057	-.360
22	-1.492	-1.859	-1.274	-1.438	-.242	.066	-.138
23	-1.597	-.468	-.142	-.414	-.249	.121	-.045
24	-.714	-.233	-.180	-.453	-.318	.047	-.098
25	.583	.696	.844	-2.182	-1.004	-.374	-.196
26	-.818	-.317	.042	-1.478	.000,000	-.966	-.306
27	-.394	-.173	-.045	-.693	-.435	.174	-.118
28	.130	.016	1.017	-.466	-.246	.042	-.064
29	.457	.921	.846	-.100	-.313	.326	.099
30	.520	1.521	1.670	-.202	-.203	.330	.193
31	.886	1.610	1.871	-.353	.074	.396	.359
32	1.210	1.674	1.462	-.310	-.082	.322	.337
33	.827	1.124	1.023	-.258	.141	.243	.206

$\alpha = 10°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	2.028	2.224	1.579	-1.340	.599	1.557	.538
2	1.462	1.930	1.394	.248	2.025	2.582	.643
3	1.599	1.654	1.227	.524	2.222	2.682	.841
4	1.066	1.088	.957	1.250	2.368	2.534	.567
5	.456	.397	.625	1.544	1.971	1.914	.446
6	-.202	-.018	.039	-.369	-.281	.672	-.210
7	.193	.415	-.075	1.680	1.710	1.770	.785
8	-1.297	-1.972	-1.640	1.064	.449	.483	-.331
9	-2.085	-3.143	-3.446	-.489	-1.238	-1.043	-1.179
10	-1.274	-2.288	-2.733	-.840	-1.212	-1.022	-.886
11	-.862	-1.759	.000,000	-1.149	-1.401	-.796	-.604
12	-2.043	-1.140	-1.182	-.934	-1.045	-.403	-.556
13	-.724	-1.192	-1.119	-.784	-.806	-.273	-.382
14	-.867	-1.126	-1.091	-.803	-.730	-.171	-.327
15	-.261	-.431	.535	-.015	-.009	.186	.088
16	-.253	-1.191	.331	-.100	-.109	.281	.122
17	-.888	-2.953	-1.075	-.518	-.341	.226	-.067
18	-1.530	-2.019	-2.059	-1.146	-.625	-.184	-.284
19	-2.110	-2.819	-2.851	-1.792	-.798	-.329	-.560
20	-2.337	-3.079	-2.746	-2.145	-.688	-.506	-.542
21	-2.438	-2.588	-2.199	-1.962	-.371	-.075	-.228
22	-2.200	-1.865	-1.147	-1.072	-.191	.090	-.045
23	-1.914	-.468	-.152	-.165	-.234	.027	-.121
24	-.737	-.148	-.030	-.240	-.182	.264	.062
25	.741	1.014	1.106	-1.810	-.818	.078	-.014
26	-.572	-.006	.027	-1.446	.000,000	-.637	-.281
27	-.265	-.009	.154	-.438	-.223	.130	-.273
28	.236	.193	1.350	-.438	.264	.206	.101
29	.329	.952	.898	.065	-.114	.151	-.047
30	.610	1.948	1.596	.050	-.017	.402	.407
31	1.017	1.978	1.687	-.208	-.126	.302	.429
32	1.309	1.700	1.581	-.091	-.003	.333	.348
33	.845	1.160	1.182	.614	.077	.389	.223

$\alpha = 15°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	2.074	2.153	1.276	-.792	1.051	1.441	.424
2	1.676	1.706	.762	.584	2.043	2.329	.351
3	1.481	1.432	.716	.926	2.264	2.452	.574
4	.854	.746	.407	1.301	2.258	2.257	.313
5	.451	.202	.180	1.743	2.048	1.652	.287
6	.047	.143	.322	-.374	-.216	.560	-.138
7	.181	.043	-.807	1.474	1.569	1.534	.431
8	-1.315	-2.089	-1.963	.652	.225	.183	-.552
9	-2.141	-3.150	-3.788	-.506	-1.434	-1.544	-1.392
10	-1.380	-2.566	-2.972	-1.060	-1.438	-1.218	-1.065
11	-.853	-1.837	.000,000	-1.163	-1.420	-.921	-.807
12	-2.364	-1.422	-1.502	-1.085	-1.212	-.601	-.632
13	-.445	-1.230	-1.244	-.764	-.826	-.492	-.450
14	-1.073	-1.178	-1.220	-.837	-.776	-.347	-.417
15	-.203	-.816	.675	.238	.048	.234	.035
16	.243	-1.241	.140	.111	-.040	.227	.087
17	-1.154	-3.162	-1.113	-.534	-.315	.149	-.235
18	-1.838	-2.127	-2.185	-1.152	-.662	-.317	-.324
19	-2.729	-3.305	-3.386	-2.277	-1.215	-.583	-.618
20	-2.863	-3.240	-3.017	-2.373	-.838	-.692	-.744
21	-2.490	-2.376	-2.121	-1.670	-.211	-.068	-.391
22	-2.408	-1.964	-1.402	-1.155	-.201	.010	-.217
23	-1.947	-.478	-.249	-.268	-.210	-.075	-.108
24	-.436	-.247	-.214	-.247	-.152	-.143	-.074
25	.984	1.214	1.201	-1.362	-.561	-.186	-.340
26	-.399	.014	-.363	-1.335	.000,000	-.662	-.362
27	-.099	-.109	.694	-.467	-.165	.078	-.116
28	.381	.944	1.176	-.417	-.180	.101	.032
29	.317	1.050	.904	.126	-.049	.099	.226
30	.987	1.926	1.533	.217	-.088	.349	.268
31	1.448	2.204	1.799	.329	-.073	.342	.386
32	1.234	1.441	1.397	.485	.079	.298	.153
33	.936	1.223	1.235	1.038	.114	.445	.260

$\alpha = 20°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	2.107	2.015	.913	-.351	1.232	1.999	.689
2	1.588	1.279	.376	.681	2.054	2.660	.501
3	1.139	.913	-.012	1.225	2.233	2.478	.292
4	.585	.308	-.176	1.556	2.124	2.282	.237
5	.156	-.255	-.370	1.577	1.700	1.542	.119
6	.057	.108	.316	-.326	-.205	.817	-.155
7	-.037	-.605	-1.483	1.504	1.492	1.653	.749
8	-1.541	-2.549	-2.535	.468	-.106	-.103	-.560
9	-2.350	-3.509	-4.313	-.877	-1.778	-1.733	-1.655
10	-1.501	-2.774	-3.289	-1.270	-1.666	-1.357	-1.132
11	-1.162	-2.286	.000.000	-1.481	-1.805	-1.018	-1.164
12	-2.378	-1.443	-1.529	-1.029	-1.229	-.456	-.808
13	-.987	-1.217	-1.179	-.699	-.858	-.228	-.544
14	-1.319	-1.342	-1.299	-.843	-.851	-.271	-.443
15	-.344	-1.041	.686	.565	.295	.273	0.
16	-.381	-1.438	.223	.188	-.062	.465	-.026
17	-1.536	-3.283	-1.196	-.448	-.516	.204	-.059
18	-2.646	-2.503	-2.416	-1.243	-.885	-.320	-.418
19	-3.755	-3.489	-3.580	-2.298	-1.547	-.608	-.680
20	-3.494	-3.187	-3.023	-2.252	-1.412	-.755	-.874
21	-3.630	-2.780	-2.435	-1.773	-.647	-.181	-.300
22	-3.646	-2.247	-1.901	-1.330	-.203	.088	-.154
23	-2.480	-.557	-.472	-.286	-.230	.201	-.183
24	-1.051	-.391	-.227	-.347	-.241	.260	-.102
25	1.143	1.432	1.497	-.977	-.235	.281	-.157
26	-.070	-.136	-.107	-1.163	-1.142	.000.000	.078	-.197
27	-.009	-.107	1.076	-.149	-.085	.199	-.275
28	.315	1.411	1.153	-.276	-.132	.344	-.033
29	.326	.913	1.004	.249	-.119	.467	.285
30	1.157	1.919	1.614	.152	.039	.506	.336
31	1.368	1.736	1.569	.289	.021	.405	.058
32	1.082	1.522	1.459	1.049	.238	.436	.245
33	.777	1.051	1.232	1.322	.371	.695	.328

$\alpha = 25°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	2.045	1.882	.501	.137	1.495	2.127	.284
2	1.366	1.103	-.358	1.017	2.324	2.665	.394
3	.935	.632	-.424	1.236	2.317	2.497	.455
4	.389	-.019	-.945	1.696	2.086	2.031	.140
5	0.	-.553	-.785	1.711	1.612	1.403	.071
6	.136	.334	.159	-.320	-.163	.767	-.306
7	-.135	-1.044	-1.913	1.346	1.276	1.474	.732
8	-1.916	-3.058	-3.161	.327	-.319	-.382	-.625
9	-2.622	-4.058	-4.955	-1.188	-2.295	-2.030	-1.603
10	-1.723	-3.013	-3.515	-1.355	-1.895	-1.500	-1.017
11	-1.194	-2.174	.000.000	-1.547	-1.878	-.967	-.798
12	-2.383	-1.463	-1.625	-1.136	-1.320	-.585	-.677
13	-1.351	-1.372	-1.387	-.833	-1.020	-.409	-.402
14	-1.786	-1.412	-1.238	-.945	-1.054	-.320	-.372
15	-.587	-1.211	.710	.594	.223	.472	.234
16	-.592	-1.408	.143	.318	-.036	.271	.021
17	-1.876	-3.453	-1.134	-.508	-.582	.023	-.158
18	-3.134	-2.673	-2.622	-1.401	-1.239	-.583	-.524
19	-3.960	-3.211	-3.361	-2.140	-1.584	-.911	-.844
20	-4.736	-3.521	-3.135	-2.367	-1.457	-1.097	-.959
21	-4.834	-3.198	-2.728	-2.125	-1.231	-.401	-.484
22	-4.112	-2.336	-1.890	-1.015	-.500	-.080	-.353
23	-2.812	-.709	-.445	-.351	-.312	.073	-.186
24	-1.247	-.341	.041	-.284	-.228	.080	-.157
25	1.554	1.842	1.786	-.908	-.080	.398	-.060
26	.005	-.364	.156	-1.242	.000.000	.265	-.155
27	.162	.027	1.260	-.365	-.021	.196	.101
28	.263	1.544	1.304	-.182	-.054	.295	.171
29	.288	.998	.931	.354	.049	.389	.220
30	1.174	1.920	1.737	.309	.197	.442	.267
31	1.417	1.882	1.792	.738	.236	.576	.248
32	1.035	1.487	1.562	1.366	.640	.772	.516
33	.628	1.080	1.151	1.723	.886	.614	.443

$\alpha = 30°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	1.900	1.696	.387	.210	1.605	2.123	-.243
2	.953	.615	-.711	1.140	2.107	2.381	-.117
3	.691	.175	-1.146	1.366	2.154	2.353	-.039
4	.099	-.458	-1.339	1.565	1.837	1.895	-.075
5	-.268	-.883	-1.286	1.676	1.368	1.113	-.168
6	.018	.342	.127	-.423	-.232	.641	-.403
7	-.425	-1.487	-2.359	1.232	1.133	1.279	.467
8	-2.289	-3.676	-3.717	.229	-.736	-.469	-.598
9	-3.033	-4.567	-5.340	-1.560	-2.682	-2.290	-1.743
10	-1.940	-3.367	-3.842	-1.729	-2.257	-1.602	-1.200
11	-1.492	-2.567	.000.000	-1.804	-2.279	-1.249	-1.034
12	-2.598	-1.654	-1.633	-1.358	-1.582	-.708	-.700
13	-1.641	-1.485	-1.355	-.933	-1.184	-.554	-.628
14	-2.182	-1.628	-1.392	-1.099	-1.212	-.554	-.419
15	-.845	-1.396	.682	.581	.305	.521	.163
16	-.968	-1.395	.228	.195	-.031	.238	.052
17	-2.314	-3.707	-1.287	-.689	-.846	-.165	-.189
18	-3.513	-2.759	-2.503	-1.618	-1.542	-.978	-.716
19	-4.618	-3.468	-3.287	-2.396	-2.039	-1.461	-1.126
20	-5.300	-3.729	-3.263	-2.710	-2.094	-1.603	-1.308
21	-5.940	-3.894	-2.966	-2.550	-1.739	-1.070	-.963
22	-4.920	-2.877	-2.096	-1.707	-.572	-.436	-.612
23	-2.745	-.974	-.634	-.369	-.282	-.155	-.056
24	-1.764	-.394	.016	-.321	-.351	-.027	-.275
25	1.403	1.728	1.452	-.736	.010	.373	-.016
26	-.005	-.549	.389	-.918	.000.000	-.025	-.307
27	.257	.286	1.634	-.332	-.048	.130	-.165
28	.553	1.354	1.283	-.158	-.157	.056	.002
29	.177	.933	1.064	.442	.147	.361	.262
30	.922	1.661	1.591	.710	.450	.666	.257
31	1.286	1.942	1.756	.957	.700	.977	.451
32	.818	1.367	1.543	1.702	.881	.618	.264
33	.420	.921	1.108	1.427	.872	.753	.365

Table 30.- Continued.

(a) $C_{T,S} = 0.90$, $q_S = 20.19$

$\alpha = 35°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	1.862	1.493	-.223	.705	1.890	2.007	-.692
2	.804	.210	-1.440	1.553	2.353	2.472	-.568
3	.507	-.262	-1.927	1.695	2.578	2.554	-.951
4	-.081	-.870	-2.102	1.695	1.979	1.720	-.841
5	-.505	-1.291	-1.942	1.860	1.415	.964	-.843
6	0.	.511	.142	-.401	-.312	.490	-.166
7	-.729	-1.620	-2.645	1.184	1.071	1.125	.115
8	-2.792	-4.432	-4.489	.018	-.963	-.658	-.979
9	-3.087	-4.675	-5.314	-1.810	-2.759	-2.355	-1.672
10	-2.214	-3.618	-3.883	-1.972	-2.323	-1.784	-1.233
11	-1.595	-2.450	*000.000	-1.745	-2.153	-1.218	-.995
12	-2.552	-1.784	-1.672	-1.375	-1.623	-.934	-.937
13	-1.944	-1.674	-1.349	-1.070	-1.298	-.711	-.589
14	-2.444	-1.727	-1.399	-1.155	-1.221	-.715	-.791
15	-.983	-1.362	.714	.718	.324	.467	-.050
16	-1.182	-1.551	.184	.232	.003	.135	-.064
17	-2.719	-4.140	-1.355	-.749	-.945	-.483	-.665
18	-4.057	-2.874	-2.526	-1.780	-1.884	-1.382	-.965
19	-5.646	-4.068	-3.536	-2.939	-3.067	-2.021	-1.450
20	-5.793	-4.050	-3.013	-3.151	-2.548	-1.949	-1.523
21	-6.184	-3.996	-2.532	-2.717	-1.892	-1.463	-1.386
22	-5.259	-3.151	-1.482	-1.856	-.686	-.778	-1.104
23	-2.491	-1.131	-.537	-.346	-.367	-.482	-.944
24	-1.809	-.386	-.025	-.318	-.335	-.284	-.626
25	1.716	2.002	1.617	-.521	.085	.008	-.773
26	.037	-.508	.359	-.817	*000.000	-.180	-.253
27	-.120	.809	1.849	-.269	-.074	-.171	-.215
28	.984	1.552	1.563	-.049	-.195	-.091	-.306
29	0.	.943	1.112	.763	.226	.391	.113
30	.944	2.114	2.002	1.163	.863	.694	.081
31	1.206	1.930	1.892	1.572	.887	.716	.041
32	.777	1.431	1.603	1.793	1.244	.726	.287
33	.423	.983	1.253	1.523	1.241	.623	-.148

$\alpha = 40°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	1.494	1.124	-.450	.938	1.770	1.961	-.646
2	.487	-.188	-1.984	1.693	2.278	2.316	-.767
3	.054	-.726	-2.230	1.545	2.046	2.041	-.900
4	-.382	-1.180	-2.342	1.451	1.675	1.640	-.803
5	-.684	-1.601	-2.252	1.353	1.067	.857	-.704
6	.091	.399	.180	-.473	-.355	.579	-.142
7	-.984	-2.097	-3.177	.925	.971	1.303	.028
8	-2.813	-4.124	-4.028	-.384	-.994	-.526	-.733
9	-3.058	-4.611	-5.221	-1.860	-2.401	-2.017	-1.193
10	-2.223	-3.526	-3.648	-2.174	-2.442	-1.547	-.972
11	-1.682	-2.659	*000.000	-2.136	-2.404	-1.211	-1.039
12	-2.349	-1.787	-1.443	-1.489	-1.640	-.723	-.811
13	-2.236	-1.870	-1.505	-1.238	-1.394	-.667	-.501
14	-2.770	-1.854	-1.462	-1.300	-1.314	-.697	-.687
15	-1.200	-1.433	.612	.700	.292	.613	.031
16	-1.390	-1.521	.183	.140	-.058	.270	-.190
17	-3.038	-4.365	-1.455	-1.050	-1.368	-.340	-.653
18	-3.790	-2.762	-2.189	-2.016	-2.018	-1.403	-.906
19	-5.146	-3.879	-2.819	-3.116	-2.917	-2.022	-1.422
20	-6.982	-5.024	-3.351	-3.940	-3.636	-2.455	-2.015
21	-6.304	-3.974	-2.510	-2.793	-2.480	-1.580	-1.290
22	-5.187	-3.145	-1.730	-2.123	-1.762	-1.336	-1.317
23	-2.615	-1.165	-.806	-.466	-.498	-.434	-.834
24	-2.175	-.291	-.073	-.396	-.465	-.308	-.329
25	1.731	1.942	1.504	-.173	.336	.328	-.915
26	-.140	-.584	.443	-.861	*000.000	-.198	-.186
27	-.145	1.040	1.825	-.330	-.206	.031	-.110
28	1.074	1.296	1.374	-.052	-.250	-.080	-.158
29	-.022	.881	1.245	.857	.418	.539	.246
30	.683	1.680	1.800	1.206	.708	.739	.113
31	1.053	1.751	1.954	1.655	1.139	.989	.048
32	.766	1.587	1.783	1.914	1.687	1.025	.363
33	.292	.916	1.155	1.224	1.285	.675	.195

$\alpha = 45°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	1.306	.866	-.865	1.324	2.013	1.953	-.619
2	.014	-.506	-2.385	1.927	2.343	2.249	-1.013
3	-.355	-1.142	-2.736	1.816	2.153	2.202	-1.094
4	-.743	-1.584	-2.759	1.410	1.615	1.285	-.998
5	-1.033	-1.870	-2.494	1.164	.936	.845	-.899
6	-.010	.394	.028	-.655	-.389	.371	-.204
7	-1.407	-2.523	-3.640	.812	.946	1.184	-.092
8	-3.559	-5.077	-4.924	-1.046	-1.468	-.956	-.824
9	-4.996	-5.712	-6.344	-3.008	-3.648	-2.450	-1.228
10	-2.508	-4.023	-4.147	-2.540	-2.736	-1.712	-.807
11	-1.993	-2.870	*000.000	-2.301	-2.510	-1.340	-.786
12	-2.422	-2.059	-1.690	-1.703	-1.689	-.878	-.718
13	-2.677	-1.935	-1.536	-1.341	-1.479	-.803	-.344
14	-3.745	-2.267	-1.737	-1.621	-1.707	-1.112	-.759
15	-1.594	-1.581	.688	.863	.482	.523	-.152
16	-1.738	-1.537	.159	.185	-.003	.120	-.039
17	-3.381	-4.558	-1.460	-1.061	-1.483	-.573	-.387
18	-4.353	-2.877	-2.207	-2.017	-2.054	-1.554	-.874
19	-5.949	-4.341	-3.129	-3.269	-3.314	-2.023	-1.270
20	-7.020	-4.816	-3.010	-4.041	-3.431	-2.695	-1.592
21	-5.573	-3.676	-2.191	-2.818	-2.532	-1.760	-.958
22	-5.527	-3.394	-1.966	-2.513	-1.753	-1.390	-.790
23	-2.485	-1.048	-.893	-.347	-.469	-.702	-.815
24	-2.061	-.256	-.181	-.390	-.566	-.400	-.315
25	1.694	1.928	1.462	.171	.412	.172	-.509
26	-.488	-.688	.364	-.720	*000.000	-.327	-.042
27	-.061	1.307	1.834	-.366	-.234	-.250	-.161
28	.957	1.211	1.296	-.015	-.240	-.227	.052
29	-.127	.903	1.137	1.058	.373	.313	.403
30	.463	1.728	1.866	1.435	.968	.637	.073
31	.454	1.725	1.856	1.624	1.340	.886	.270
32	.631	1.273	1.567	1.597	1.622	.766	.258
33	.409	.759	1.160	1.070	1.099	.716	.142

$\alpha = 50°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.743	.690	-.854	1.549	2.112	1.842	-1.051
2	-.572	-1.074	-3.059	2.079	2.426	2.349	-1.183
3	-1.017	-1.447	-3.031	1.829	2.115	1.910	-1.193
4	-1.304	-1.969	-3.183	1.533	1.534	1.490	-1.227
5	-1.618	-2.195	-2.817	.972	.868	.570	-1.192
6	-.056	.303	.070	-.529	-.263	.257	-.133
7	-1.619	-2.554	-3.493	.499	.829	.960	-.491
8	-4.047	-5.273	-4.945	-1.361	-1.525	-.747	-1.142
9	-4.167	-5.914	-6.258	-3.529	-3.679	-2.236	-1.199
10	-2.913	-4.409	-4.204	-3.181	-2.970	-1.756	-.928
11	-1.933	-2.685	*000.000	-2.395	-2.268	-1.159	-.802
12	-2.119	-1.990	-1.560	-1.689	-1.566	-.775	-.533
13	-2.039	-1.888	-1.396	-1.338	-1.274	-.706	-.576
14	-3.321	-1.935	-1.391	-1.306	-1.294	-.588	-.561
15	-1.617	-1.597	.749	.735	.403	.384	-.273
16	-1.946	-1.634	.173	.258	-.035	.068	-.102
17	-3.206	-4.244	-1.382	-.996	-1.330	-.315	-.338
18	-4.438	-3.029	-2.343	-2.184	-2.151	-1.332	-.906
19	-5.796	-4.601	-3.336	-3.440	-3.119	-1.772	-1.279
20	-5.504	-3.962	-2.616	-3.522	-2.937	-1.587	-1.258
21	-6.256	-4.330	-2.621	-3.234	-3.170	-1.825	-1.135
22	-4.584	-3.040	-1.896	-2.257	-2.247	-1.312	-1.176
23	-2.771	-1.224	-1.074	-.505	-.599	-.628	-.943
24	-1.917	-.421	-.328	-.438	-.451	-.099	-.319
25	1.686	1.971	1.446	.472	.480	-.051	-.334
26	-.874	-.783	.387	-.686	*000.000	-.256	-.141
27	.324	1.457	1.809	-.301	-.257	-.077	-.436
28	.737	1.218	1.372	-.019	-.267	-.195	.081
29	-.287	.903	1.239	1.068	.344	.256	.156
30	.380	1.721	1.851	1.392	.953	.796	-.057
31	.417	1.824	1.986	1.807	1.611	.897	.010
32	.447	1.276	1.547	1.629	1.539	.567	.212
33	.221	.763	1.158	1.168	1.312	.528	.177

$\alpha = 55°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.257	.447	-1.065	1.728	2.051	1.769	-.827
2	-1.151	-1.217	-2.756	1.950	2.228	1.915	-.982
3	-1.425	-1.896	-3.351	1.834	2.055	1.680	-.828
4	-1.777	-2.239	-3.276	1.490	1.539	1.456	-.773
5	-2.062	-2.598	-2.989	.972	.898	1.032	-.754
6	-.299	.136	.073	-.587	-.294	.532	-.182
7	-2.068	-3.216	-4.058	.523	.881	1.697	-.444
8	-3.972	-5.045	-4.567	-1.331	-1.337	-.242	-.621
9	-4.039	-5.759	-5.781	-3.307	-3.436	-1.579	-.634
10	-2.774	-4.243	-3.834	-3.171	-2.867	-1.189	-.714
11	-2.063	-2.801	*000.000	-2.376	-2.149	-.918	-.516
12	-2.208	-2.145	-1.631	-1.723	-1.533	-.610	-.569
13	-3.080	-1.998	-1.501	-1.371	-1.491	-.516	-.528
14	-3.484	-2.078	-1.445	-1.456	-1.283	-.506	-.540
15	-1.627	-1.530	.687	.752	.440	.444	-.155
16	-1.566	-1.516	.185	.169	.061	.323	-.295
17	-3.379	-4.476	-1.451	-1.223	-1.376	-.377	-.488
18	-4.454	-3.300	-2.755	-2.545	-2.089	-1.431	-1.212
19	-5.761	-3.978	-3.065	-3.134	-2.381	-.963	-.854
20	-6.255	-4.139	-2.821	-3.702	-3.137	-1.557	-1.037
21	-5.780	-3.788	-2.460	-3.065	-2.635	-1.363	-1.135
22	-4.030	-2.842	-2.094	-2.210	-2.115	-1.016	-1.255
23	-2.259	-1.135	-.980	-.469	-.543	-.439	-.685
24	-1.456	-.449	-.366	-.302	-.314	-.196	-.438
25	1.290	1.899	1.545	.506	.564	.129	-.525
26	-1.017	-.664	.269	-.499	*000.000	-.226	-.085
27	.747	1.355	1.701	-.354	-.280	-.186	-.042
28	.887	1.152	1.380	-.037	-.275	-.063	.153
29	-.271	.803	1.174	1.002	.417	.590	.241
30	.434	1.874	2.227	1.742	1.038	.985	-.152
31	.614	1.622	1.737	1.689	1.245	.894	.007
32	.356	1.148	1.275	1.474	1.148	.675	.338
33	.255	.710	1.136	1.229	1.228	.526	.040

$\alpha = 60°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-.448	.235	-1.319	1.610	1.956	.859	-.538
2	-2.203	-1.569	-3.543	2.024	2.419	1.731	-.962
3	-2.145	-2.082	-3.411	1.723	1.960	1.457	-.924
4	-2.230	-2.452	-3.474	1.337	1.535	1.022	-.657
5	-2.546	-2.788	-3.237	.926	.855	.893	-.571
6	-.395	.078	-.107	-.517	-.223	.407	-.197
7	-2.174	-3.056	-3.951	.478	.907	1.225	-.045
8	-4.800	-5.671	-4.976	-1.629	-1.339	.150	-.336
9	-4.079	-5.426	-5.408	-3.203	-2.853	-.800	-.729
10	-3.168	-4.449	-3.813	-3.151	-2.555	-.731	-.604
11	-2.503	-2.987	*000.000	-2.301	-1.857	-.429	-.663
12	-2.279	-2.173	-1.786	-1.578	-1.215	-.430	-.675
13	-3.501	-1.969	-1.634	-1.273	-.974	-.250	-.494
14	-3.609	-2.035	-1.674	-1.363	-1.101	-.550	-.734
15	-1.888	-1.523	.496	.647	.452	.440	-.159
16	-1.998	-1.441	-.819	.108	.038	.152	-.381
17	-3.887	-5.081	-1.865	-1.124	-1.028	-.164	-.534
18	-4.144	-2.904	-2.574	-2.009	-1.797	-.497	-.633
19	-5.543	-3.850	-3.353	-2.971	-1.850	-.941	-1.133
20	-4.844	-3.517	-2.919	-2.795	-1.764	-.793	-.829
21	-6.267	-3.789	-3.107	-2.965	-1.820	-.790	-1.208
22	-3.897	-2.675	-2.423	-2.083	-1.562	-.854	-.898
23	-2.295	-1.336	-1.111	-.590	-.589	-.582	-.574
24	-1.261	-.494	-.509	-.203	-.288	-.108	-.324
25	.827	1.722	1.256	.454	.472	-.476	-.191
26	-1.445	-.863	.192	-.530	*000.000	-.542	-.079
27	1.130	1.419	1.639	-.278	-.271	-.147	-.301
28	.517	1.077	1.246	.045	-.335	.028	-.163
29	-.368	.681	.995	.751	.148	.346	.078
30	.416	1.697	1.827	1.389	.506	.706	-.173
31	.335	1.628	1.593	1.618	1.185	.772	.005
32	.368	1.181	1.130	1.475	1.354	.903	-.076
33	.149	.655	.878	1.271	1.235	.304	-.040

Table 30. - Continued.

(a) $C_{T,s} = 0.90$, $q_s = 20.19$

$\alpha = 65°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.225	.113	-1.444	2.157	2.173	.232	-.238
2	-2.542	-1.860	-3.241	1.816	2.098	1.378	-.163
3	-3.110	-2.705	-4.110	1.840	2.109	1.161	-.631
4	-2.730	-2.771	-3.628	1.400	1.555	.967	-.410
5	-2.954	-2.825	-.871	.830	.768	.120	-.247
6	-.603	-.014	-.151	-.568	-.242	.313	-.247
7	-2.427	-2.990	-3.653	.462	.808	.821	.198
8	-5.810	-6.647	-5.635	-1.781	-1.428	-.012	.356
9	-4.902	-5.987	-5.667	-3.336	-2.973	-.768	-.440
10	-3.283	-4.317	-3.491	-3.047	-2.200	-.577	-.400
11	-2.557	-3.046	*000.000	-2.276	-1.570	-.252	-.268
12	-2.249	-2.180	-1.796	-1.433	-1.177	-.386	-.426
13	-3.768	-2.001	-1.615	-1.238	-.904	-.467	-.653
14	-4.288	-2.214	-1.877	-1.236	-.972	-.472	-.241
15	-2.062	-1.477	.564	.732	.428	.306	.053
16	-2.237	-1.517	0.	.250	.054	.011	.076
17	-2.436	-4.254	-1.668	-1.006	-.492	-.404	-.356
18	-4.406	-3.119	-2.956	-2.152	-1.114	-1.082	-.552
19	-5.231	-3.553	-3.370	-2.598	-2.142	-.762	-.534
20	-4.453	-3.240	-3.094	-2.257	-1.203	-.884	-.846
21	-4.791	-3.324	-2.982	-2.658	-1.931	-.775	-.616
22	-3.776	-2.662	-2.559	-1.697	-1.146	-.758	-.291
23	-2.260	-1.332	-1.003	-.640	-.507	-.529	-.445
24	-1.180	-.482	-.401	-.051	-.175	-.198	-.032
25	.520	1.738	1.249	.618	.348	-.517	-.074
26	-1.618	-.854	.050	-.382	*000.000	-.444	.303
27	1.197	1.688	2.010	-.434	-.271	-.222	.235
28	.255	1.026	1.164	-.127	-.226	-.164	.278
29	-.540	.673	1.034	.776	.162	.093	.567
30	.156	1.561	1.579	1.274	.593	.471	.393
31	.221	1.914	1.756	2.070	1.092	.497	.496
32	.136	1.267	1.169	1.673	1.440	.356	.188
33	.166	.648	.883	1.205	1.264	.247	.111

$\alpha = 70°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.750	-.372	-1.643	1.818	1.851	-.008	-.070
2	-3.326	-2.421	-3.670	1.999	2.233	1.023	-.074
3	-3.043	-2.876	-3.667	1.741	2.003	.546	-.149
4	-3.284	-3.403	-4.142	1.417	1.712	.498	-.073
5	-3.729	-3.672	-3.749	.764	.945	.376	-.470
6	-.459	-.201	-.199	-.625	-.273	.036	-.097
7	-2.924	-3.394	-3.738	.469	.851	.261	-.054
8	-5.299	-5.938	-4.655	-1.708	-.882	-.058	-.263
9	-5.577	-6.645	-5.678	-3.710	-2.433	-.524	-.208
10	-3.619	-4.760	-3.598	-3.134	-1.774	-.537	-.360
11	-2.684	-2.963	*000.000	-2.169	-1.370	-.289	0.
12	-2.184	-2.037	-1.682	-1.510	-1.031	-.503	-.394
13	-3.384	-2.053	-1.662	-1.171	-.675	-.482	-.174
14	-3.488	-2.101	-1.739	-1.205	-.767	-.355	-.526
15	-1.707	-1.298	.484	.596	.416	.236	-.045
16	-1.951	-1.318	-.060	.164	.118	.037	-.026
17	-3.233	-4.515	-1.580	-1.105	-.996	-.258	-.384
18	-4.665	-3.132	-2.793	-1.988	-.843	-.694	-.499
19	-5.484	-3.579	-3.312	-2.181	-1.623	-.611	-.702
20	-5.440	-3.839	-3.728	-2.886	-1.824	-1.205	-.818
21	-4.179	-2.965	-2.869	-2.035	-1.471	-.285	-.676
22	-3.135	-2.468	-2.451	-1.595	-1.071	-.885	-.405
23	-1.658	-1.095	-.897	-.557	-.689	-.510	-.594
24	-.960	-.434	-.335	-.228	-.217	-.286	-.348
25	-.180	1.692	1.285	.509	.381	-.459	-.366
26	-1.293	-.731	.187	-.375	*000.000	-.230	.167
27	.404	1.511	1.726	-.511	-.332	-.374	-.056
28	.189	.956	1.190	-.115	-.306	-.207	.059
29	-.489	.564	1.126	.630	.139	.026	-.033
30	.149	1.524	1.673	1.199	.397	.467	-.024
31	.346	1.640	1.355	1.590	.919	.449	.017
32	.177	1.286	1.227	1.640	1.089	.433	.260
33	.194	.546	.845	1.199	1.046	.369	.203

$\alpha = 75°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.346	-.741	-1.781	1.839	1.759	.114	-.225
2	-3.804	-2.747	-3.904	2.014	2.249	.094	-.026
3	-3.597	-3.424	-4.318	1.833	2.077	-.075	-.672
4	-3.576	-4.076	-4.569	1.315	1.824	.227	-.213
5	-3.737	-3.718	-3.562	.896	1.161	.221	-.108
6	-.424	-.277	-.300	-.395	-.260	.438	.005
7	-3.114	-3.654	-3.928	.468	1.018	.291	-.468
8	-6.002	-6.832	-5.229	-1.911	-.893	.029	-.302
9	-5.776	-7.577	-6.569	-4.106	-2.701	-.030	.060
10	-4.004	-5.277	-3.967	-3.436	-1.897	.032	-.768
11	-2.654	-3.014	*000.000	-2.140	-1.196	-.091	-.307
12	-2.311	-2.299	-1.956	-1.431	-.923	-.181	-.180
13	-2.540	-1.890	-1.625	-.849	-.596	-.022	-1.009
14	-2.429	-1.941	-1.542	-.846	-.639	-.073	-.098
15	-1.332	-1.192	.410	.651	.401	.608	.358
16	-1.525	-1.377	-.038	.244	.224	.316	-.082
17	-2.883	-3.888	-1.392	-.729	-.238	-.048	-.607
18	-3.205	-2.502	-2.480	-1.226	-.750	-.050	-.815
19	-3.754	-2.807	-2.961	-1.360	-1.377	-.542	-.601
20	-4.071	-3.135	-3.224	-2.154	-1.029	-.023	-.114
21	-2.620	-2.552	-2.758	-1.102	-1.320	-.482	-.249
22	-2.271	-2.014	-2.272	-1.334	-.944	-.142	-.620
23	-1.320	-1.069	-.878	-.460	-.642	-.179	-.555
24	-.836	-.411	-.338	-.278	-.377	-.278	-.079
25	-.325	1.509	1.091	.565	.166	-.148	-.499
26	-1.520	-.842	-.027	-.421	*000.000	.079	-.386
27	.444	1.491	1.499	-.404	-.271	-.074	.383
28	.065	.780	.984	-.126	-.235	-.002	-.231
29	-.499	.474	.941	.696	-.068	.157	-.402
30	.107	1.448	1.343	1.049	.410	.661	-.204
31	.308	1.643	1.182	1.417	.589	.747	-.256
32	.323	1.085	.968	1.576	1.132	.638	-.007
33	.185	.436	.725	1.213	.748	.589	-.269

$\alpha = 80°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.484	-.928	-1.866	1.802	.986	-.387	-.249
2	-3.764	-2.167	-3.905	2.028	1.974	-.133	-.213
3	-3.021	-3.407	-3.549	1.622	1.892	.017	.059
4	-3.739	-4.132	-4.366	1.694	1.875	.075	.015
5	-4.822	-4.637	-4.350	1.221	1.594	.311	-.427
6	-.397	-.367	-.308	-.636	-.329	.039	-.492
7	-2.982	-3.614	-3.617	.427	.844	.204	-.257
8	-6.011	-7.027	-5.136	-1.657	-.511	-.186	-.431
9	-5.501	-7.075	-5.867	-3.769	-1.868	-.085	-.484
10	-4.134	-5.214	-3.754	-3.234	-1.782	-.045	.107
11	-2.666	-2.907	*000.000	-1.881	-.945	-.093	-.436
12	-2.095	-1.895	-1.549	-1.041	-.597	-.061	-.604
13	-2.490	-1.632	-1.348	-.878	-.416	-.251	-.651
14	-2.752	-1.934	-1.793	-.967	-.771	-.194	-.567
15	-1.479	-1.335	.402	.354	.056	.110	-.249
16	-1.321	-1.300	-.047	.155	.025	.101	.263
17	-2.699	-3.418	-1.409	-.586	-.355	-.169	-.416
18	-2.890	-2.161	-2.345	-1.056	-.666	-.512	-.404
19	-3.264	-2.659	-3.044	-1.891	-1.775	-.550	-.911
20	-3.472	-3.143	-3.527	-2.049	-1.596	-.768	-.787
21	-3.308	-2.508	-2.923	-1.519	-1.221	-.262	-.235
22	-2.101	-1.779	-2.054	-1.094	-.894	-.346	-.784
23	-1.490	-1.084	-.836	-.476	-.492	-.344	-.288
24	-.827	-.410	-.392	-.294	-.294	-.077	-.713
25	-1.028	1.514	1.116	.379	.154	-.243	.084
26	-.921	-.838	-.074	-.208	*000.000	-.155	-.358
27	.130	1.345	1.557	-.276	-.224	-.077	.434
28	-.048	.401	1.057	-.244	-.354	-.087	-.422
29	-.572	.467	.923	.383	-.383	.056	-.251
30	.187	1.584	1.489	.019	.040	.162	-.226
31	.106	1.563	1.168	1.260	.486	.450	-.080
32	-.027	1.047	.998	1.708	.401	.269	-.472
33	.004	.408	.679	1.100	1.022	.485	-.462

Table 30. - Continued.

(b) $C_{T,s} = 0.80$, $q_s = 19.95$

$\alpha = 5°$

TUNE NO	WING STATIONS 1	2	3	4	5	6	7
1	.478	1.011	.684	-.544	.338	.587	.381
2	.990	1.022	.724	.152	.967	1.174	.659
3	.692	.914	.721	.252	1.108	1.211	.602
4	.860	.604	.541	.668	1.121	1.130	.544
5	.304	.333	.418	.872	.986	.831	.269
6	-.068	-.117	-.106	-.258	-.181	.262	-.073
7	.183	.177	-.026	.773	.776	.699	.414
8	-.481	-.785	-.608	.318	.143	.020	-.180
9	-1.023	-1.489	-1.604	-.353	-.759	-.812	-.757
10	-.730	-1.262	-1.372	-.647	-.734	-.712	-.692
11	-.523	-.854	∞000.000	-.624	-.758	-.581	-.537
12	-1.062	-.872	-.732	-.552	-.597	-.421	-.377
13	-.413	-.640	-.633	-.432	-.446	-.274	-.283
14	-.514	-.674	-.635	-.445	-.399	-.248	-.251
15	-.119	-.350	.255	-.028	-.033	.094	-.001
16	.158	-.452	.030	.138	-.070	.011	.010
17	-.433	-1.426	-.907	-.312	-.179	-.017	-.126
18	-.769	-1.083	-1.167	-.616	-.362	-.231	-.218
19	-1.004	-1.449	-1.562	-.991	-.665	-.358	-.332
20	-1.212	-1.517	-1.443	-1.126	-.447	-.321	-.304
21	-1.223	-1.369	-1.185	-1.008	-.172	-.063	-.174
22	-1.088	-.843	-.867	-.533	-.107	-.023	-.086
23	-.981	-.252	-.168	-.200	-.114	-.070	-.060
24	-.283	-.170	-.132	-.195	-.074	-.017	-.124
25	.281	.360	.240	-.735	-.357	-.169	-.109
26	-.308	-.168	.092	-.718	∞000.000	-.359	-.172
27	-.173	-.075	-.006	.243	-.125	-.063	-.107
28	.057	-.065	.473	.198	-.077	.004	-.034
29	.209	.415	.361	.017	-.125	.047	.060
30	.192	.780	.641	-.020	-.042	.071	.051
31	.466	.822	.686	-.005	-.094	.074	.058
32	.584	.764	.727	.011	-.026	.114	.118
33	.409	.598	.545	.388	.050	.106	.061

$\alpha = 10°$

TUNE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.024	1.071	.589	-.285	.638	.891	.578
2	.867	.842	.320	.303	1.069	1.165	.667
3	.747	.670	.242	.544	1.131	1.174	.639
4	.550	.392	.187	.770	1.083	1.003	.399
5	.293	.087	.061	.749	.923	.718	.235
6	-.062	.034	.032	-.257	-.113	.374	-.124
7	.070	-.032	-.502	.667	.699	.677	.302
8	-.701	-1.146	-1.160	.088	-.086	-.162	-.425
9	-1.145	-1.735	-1.916	-.619	-.995	-.994	-.924
10	-.882	-1.345	-1.504	-.753	-.874	-.756	-.735
11	-.584	-1.056	∞000.000	-.809	-.890	-.591	-.573
12	-1.178	-.731	-.797	-.629	-.689	-.438	-.456
13	-.515	-.661	-.653	-.493	-.482	-.312	-.300
14	-.610	-.677	-.702	-.518	-.423	-.316	-.332
15	-.143	-.447	.237	.075	.007	.091	-.002
16	-.232	-.573	.070	.006	-.048	.022	-.039
17	-.546	-1.571	-.570	-.285	-.234	-.018	-.110
18	-.943	-1.146	-1.116	-.612	-.359	-.213	-.242
19	-1.241	-1.551	-1.441	-1.018	-.496	-.409	-.521
20	-1.571	-1.617	-1.396	-1.184	-.507	-.419	-.583
21	-1.651	-1.446	-1.229	-.915	-.231	-.206	-.190
22	-1.504	-.967	-.872	-.566	-.134	-.078	-.036
23	-1.135	-.224	-.251	-.166	-.134	-.090	-.149
24	-.510	-.214	-.123	-.218	-.101	-.050	-.215
25	.383	.571	.472	.617	-.198	-.018	-.056
26	-.172	.012	-.247	-.650	∞000.000	-.251	-.113
27	-.120	-.008	.148	-.215	-.119	.046	-.089
28	.143	.222	.573	-.188	-.105	.017	.010
29	.139	.479	.401	.077	-.050	.096	.078
30	.350	.970	.780	.139	-.005	.088	.033
31	.543	.998	.833	-.027	.007	.104	.149
32	.615	.758	.690	.327	.037	.055	.094
33	.614	.667	.522	.425	.109	.185	.070

$\alpha = 15°$

TUNE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.029	1.034	.473	.033	.845	1.009	.474
2	.777	.702	.063	.535	1.156	1.174	.424
3	.674	.488	-.019	.514	1.183	1.190	.338
4	.353	.153	-.145	.834	1.094	.970	.039
5	.141	-.159	-.172	.751	.776	.615	.041
6	.051	.041	.100	-.165	-.010	.325	-.093
7	-.013	-.382	-.474	.571	.611	.593	.296
8	-.431	-1.413	-1.348	.032	-.255	-.302	-.481
9	-1.328	-2.035	-2.270	-.833	-1.268	-1.234	-1.188
10	-.950	-1.554	-1.609	-.930	-1.043	-.935	-.896
11	-.693	-1.162	∞000.000	-.880	-1.019	-.784	-.720
12	-1.294	-.786	-.746	-.621	-.729	-.488	-.516
13	-.694	-.783	-.734	-.504	-.568	-.429	-.482
14	-.825	-.813	-.716	-.545	-.515	-.361	-.493
15	-.207	-.629	.290	.254	.175	.162	-.075
16	-.284	-.707	.116	.101	.016	.038	-.096
17	-.826	-1.801	-.852	-.316	-.298	-.155	-.271
18	-1.348	-1.282	-1.173	-.764	-.580	-.527	-.548
19	-1.871	-1.747	-1.664	-1.199	-.835	-.698	-.734
20	-2.081	-1.771	-1.536	-1.249	-.795	-.624	-.654
21	-2.168	-1.499	-1.306	-1.052	-.542	-.620	-.604
22	-2.055	-1.211	-.917	-.617	-.150	-.098	-.280
23	-1.233	-.244	-.147	-.124	-.104	-.068	-.163
24	-.623	-.188	.053	-.211	-.123	-.026	-.141
25	.504	.694	.611	-.291	.005	.160	-.085
26	-.004	-.054	-.078	.312	∞000.000	-.154	-.156
27	-.025	-.007	.521	.090	.032	.073	-.198
28	.201	.735	.618	.046	.010	.045	-.089
29	.093	.483	.541	.212	.140	.229	.061
30	.540	.950	.799	.217	.159	.224	-.073
31	.648	.956	.796	.397	.317	.387	.342
32	.537	.760	.678	.685	.310	.349	.278
33	.295	.513	.550	.507	.371	.618	.239

$\alpha = 20°$

TUNE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.036	.933	.087	.600	.983	1.250	.380
2	.663	.374	-.362	.701	1.178	1.279	.313
3	.508	.141	-.655	.750	1.180	1.196	.246
4	.220	-.188	-.655	.845	.963	.897	.048
5	0.	-.393	-.613	.630	.577	.465	-.126
6	.082	.116	.042	.054	-.010	.417	-.064
7	-.232	-.790	-1.275	.507	.551	.616	.109
8	-1.098	-1.888	-1.806	-.120	-.559	-.434	-.641
9	-1.816	-2.330	-2.701	-1.011	-1.571	-1.481	-1.214
10	-1.066	-1.756	-1.863	-1.066	-1.309	-1.116	-.984
11	-.748	-1.258	∞000.000	-.983	-1.162	-.783	-.794
12	-1.324	-.926	-.840	-.769	-.896	-.508	-.624
13	-.798	-.859	-.788	-.603	-.731	-.418	-.593
14	-1.043	-.886	-.739	-.629	-.735	-.420	-.476
15	-.362	-.840	.349	.284	.207	.351	-.051
16	-.411	-.832	.080	.130	.010	.160	-.079
17	-1.051	-1.973	-.593	-.354	-.467	-.227	-.366
18	-1.714	-1.421	-1.296	-.897	-.839	-.623	-.565
19	-2.358	-1.895	-1.687	-1.442	-1.332	-1.040	-.817
20	-2.723	-1.907	-1.696	-1.481	-1.196	-.995	-.876
21	-2.932	-1.882	-1.389	-1.371	-.954	-.761	-.848
22	-2.740	-1.472	-1.017	-.921	-.496	-.255	-.514
23	-1.432	-.436	-.177	-.231	-.178	-.107	-.308
24	-.671	-.119	.048	-.159	-.146	-.059	-.289
25	.726	.967	.773	.012	.208	.373	.090
26	.014	-.209	.193	-.309	∞000.000	-.073	-.192
27	.075	.150	.937	-.052	.028	.088	-.124
28	.219	.713	.674	.035	-.036	.123	-.038
29	.146	.514	.573	.446	.282	.365	.144
30	.554	.900	1.000	.653	.425	.546	.076
31	.656	.987	.993	.900	.531	.476	.362
32	.478	.770	.813	.969	.671	.687	.411
33	.271	.527	.695	.798	.544	.733	.177

$\alpha = 25°$

TUNE NO	WING STATIONS 1	2	3	4	5	6	7
1	.985	.751	-.220	.744	1.144	1.290	.117
2	.841	.499	-.944	.801	1.186	1.206	.064
3	.390	-.180	-1.044	.732	1.143	1.025	-.026
4	.083	-.520	-1.148	.722	.843	.639	-.261
5	-.141	-.762	-1.040	.498	.449	.254	-.280
6	.046	.213	.129	-.162	-.057	.256	.046
7	-.384	-1.041	-1.621	.355	.454	.399	-.130
8	-1.225	-2.143	-2.167	-.485	-.760	-.790	-.862
9	-1.698	-2.669	-3.063	-1.453	-1.999	-1.832	-1.374
10	-1.227	-1.929	-2.031	-1.359	-1.552	-1.404	-1.057
11	-.982	-1.361	∞000.000	-1.191	-1.354	-1.012	-.829
12	-1.295	-.919	-.798	-.859	-.938	-.678	-.585
13	-.948	-.856	-.688	-.701	-.792	-.539	-.448
14	-1.247	-.903	-.722	-.735	-.804	-.569	-.347
15	-.550	-.930	.400	.417	.345	.379	.030
16	-.683	-.882	.127	.094	-.020	.018	-.162
17	-1.296	-1.996	-.855	-.460	-.709	-.403	-.338
18	-2.052	-1.519	-1.302	-1.198	-1.286	-1.092	-.755
19	-2.714	-1.952	-1.545	-1.733	-1.718	-1.342	-.831
20	-3.115	-1.969	-1.335	-1.922	-1.751	-1.443	-1.063
21	-3.156	-1.812	-1.139	-1.681	-1.419	-1.214	-.862
22	-2.841	-1.417	-.911	-1.210	-.841	-.881	-.777
23	-1.539	-.490	-.249	-.260	-.188	-.197	-.304
24	-1.073	-.107	0.	-.177	-.142	-.155	-.154
25	.777	.975	.746	.225	.339	.387	.015
26	.152	-.252	.319	-.280	∞000.000	-.051	-.161
27	.276	.512	.923	-.050	-.010	.070	.017
28	.302	.709	.762	.151	-.027	.027	.159
29	.190	.516	.644	.557	.448	.417	.145
30	.677	.935	.944	.890	.667	.607	.027
31	.559	.979	.956	1.006	.712	.712	.328
32	.412	.729	.683	.854	.765	.611	.342
33	.268	.548	.675	.638	.712	.432	.327

$\alpha = 30°$

TUNE NO	WING STATIONS 1	2	3	4	5	6	7
1	.941	.506	-.540	.938	1.209	1.229	-.122
2	.405	-.321	-1.413	.962	1.178	1.158	-.331
3	.184	-.593	-1.536	.739	.938	.908	-.567
4	-.194	-.871	-1.561	.586	.616	.683	-.687
5	-.275	-1.007	-1.440	.379	.234	.060	-.640
6	.123	.161	.075	-.130	-.079	.149	-.063
7	-.619	-1.233	-1.838	.286	.348	.209	-.371
8	-1.561	-2.549	-2.585	-.755	-1.024	-.869	-.851
9	-1.985	-3.127	-3.592	-1.825	-2.408	-2.105	-1.420
10	-1.351	-2.197	-2.358	-1.604	-1.846	-1.490	-1.107
11	-.971	-1.400	∞000.000	-1.239	-1.449	-.979	-.773
12	-1.327	-.985	-.859	-.931	-1.061	-.663	-.550
13	-1.169	-.946	-.787	-.712	-.860	-.536	-.472
14	-1.505	-.961	-.797	-.751	-.913	-.580	-.425
15	-.645	-.899	.351	.416	.381	.337	.126
16	-.801	-.825	.086	.176	.029	.084	-.036
17	-1.545	-2.124	-.737	-.530	-.776	-.432	-.314
18	-2.375	-1.564	-1.350	-1.279	-1.436	-1.203	-.780
19	-3.194	-2.073	-1.592	-1.880	-1.989	-1.496	-.980
20	-3.454	-2.001	-1.401	-1.913	-1.910	-1.637	-1.097
21	-3.518	-1.968	-1.237	-1.714	-1.716	-1.458	-1.006
22	-2.994	-1.446	-.941	-1.226	-.914	-1.060	-.811
23	-1.524	-.522	-.404	-.249	-.324	-.270	-.506
24	-1.214	-.118	-.094	-.092	-.190	-.124	-.161
25	.841	.966	.666	.488	.433	.376	0.
26	.005	-.276	.208	-.129	∞000.000	-.026	-.143
27	.063	.756	.914	-.064	-.056	-.012	-.059
28	.519	.700	.711	.632	-.056	.055	.115
29	.005	.529	.608	.657	.525	.314	.302
30	.242	.925	.914	.971	.753	.657	.145
31	.454	.942	.966	1.079	1.003	.622	.321
32	.377	.712	.823	.924	.925	.606	.351
33	.226	.477	.581	.650	.562	.446	.094

Table 30. - Continued.

(b) $C_{T,S} = 0.80$, $q_s = 19.95$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.790	.143	-.907	1.029	1.258	1.206	-.600
2	.171	-.745	-1.850	.809	1.103	1.064	-.700
3	-.136	-.942	-1.945	.714	.921	.837	-.654
4	-.344	-1.149	-1.970	.486	.571	.445	-.655
5	-.397	-1.275	-1.592	.230	.174	.030	-.800
6	.156	.154	.054	-.092	-.003	.100	-.101
7	-.754	-1.468	-2.047	.230	.276	.403	-.450
8	-1.712	-2.770	-2.745	-.998	-1.072	-.687	-1.015
9	-1.421	-3.119	-3.522	-2.064	-2.265	-1.660	-1.146
10	-1.388	-2.166	-2.222	-1.649	-1.725	-1.181	-.856
11	-1.124	-1.544	∞000.000	-1.497	-1.487	-.915	-.722
12	-1.205	-.993	-.859	-1.004	-.962	-.623	-.565
13	-1.374	-1.024	-.846	-.819	-.856	-.547	-.579
14	-1.453	-1.103	-.876	-.894	-.941	-.688	-.670
15	-.747	-.941	.366	.508	.430	.336	-.034
16	-.964	-.834	.075	.123	.009	-.053	-.112
17	-1.949	-2.247	-.761	-.678	-.786	-.456	-.384
18	-2.643	-1.690	-1.422	-1.417	-1.486	-1.092	-.758
19	-3.445	-2.183	-1.833	-2.048	-2.043	-1.506	-.936
20	-3.822	-2.204	-1.504	-2.214	-2.043	-1.711	-1.136
21	-3.488	-1.911	-1.226	-1.798	-1.801	-1.575	-1.052
22	-2.960	-1.461	-.926	-1.235	-1.121	-1.236	-.749
23	-1.921	-.544	-.508	-.322	-.343	-.530	-.673
24	-1.059	-.158	-.137	-.311	-.278	-.193	-.184
25	.881	.997	.680	.574	.563	.436	.092
26	-.101	-.150	.347	-.115	∞000.000	.018	-.057
27	.141	.960	1.011	-.046	-.058	-.120	-.032
28	.658	.893	.793	.688	.025	.029	.190
29	-.012	.534	.676	.612	.576	.326	.217
30	.247	.891	.963	1.007	.852	.667	.080
31	.390	.917	.978	1.041	1.121	.809	.040
32	.335	.812	.847	.965	.940	.667	.507
33	.194	.474	.606	.653	.543	.425	.080

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.411	-1.095	-1.207	1.113	1.313	1.234	-.414
2	-.269	-1.075	-2.217	.796	1.047	.920	-.607
3	-.288	-1.340	-2.343	.698	.918	.920	-.746
4	-.344	-1.554	-2.447	.343	.547	.275	-.688
5	-.481	-1.566	-1.939	.183	.126	-.070	-.790
6	.043	.044	-.020	-.018	-.081	.069	-.109
7	-1.002	-1.402	-2.410	.064	-.004	.266	-.517
8	-1.964	-3.011	-2.907	-1.082	-1.117	-.668	-.709
9	-2.158	-3.241	-3.511	-2.291	-2.307	-1.623	-1.143
10	-1.494	-2.296	-2.243	-1.455	-1.482	-1.174	-.734
11	-1.184	-1.529	∞000.000	-1.490	-1.502	-.810	-.579
12	-1.185	-1.000	-.888	-.968	-.896	-.492	-.298
13	-1.568	-1.071	-.891	-.843	-.850	-.637	-.467
14	-2.042	-1.233	-.951	-.999	-.898	-.616	-.524
15	-.948	-1.002	.362	.481	.445	.273	-.032
16	-1.618	-.872	.016	.137	.102	.048	-.027
17	-1.948	-2.252	-.818	-.667	-.778	-.371	-.276
18	-2.708	-1.692	-1.433	-1.419	-1.513	-1.291	-.714
19	-3.661	-2.249	-1.776	-2.134	-2.051	-1.471	-.951
20	-3.911	-2.270	-1.646	-2.163	-1.904	-1.630	-1.113
21	-3.489	-2.030	-1.407	-1.881	-1.873	-1.460	-.970
22	-2.868	-1.541	-1.100	-1.268	-1.257	-1.282	-.903
23	-1.941	-.598	-.542	-.242	-.378	-.590	-.588
24	-1.049	-.232	-.198	-.180	-.070	-.110	-.206
25	.921	.969	.504	.758	.685	.484	-.142
26	-.140	.135	.430	-.042	∞000.000	.034	-.005
27	.304	.950	.947	-.036	-.109	-.034	-.164
28	.775	.729	.743	.786	.121	.058	.159
29	-.053	.559	.648	.595	.588	.270	.343
30	.167	.918	.976	1.077	.978	.711	.077
31	.471	.996	1.041	1.087	1.165	.813	.334
32	.108	.746	.736	.905	.938	.625	.331
33	.167	.474	.592	.641	.650	.338	.159

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.457	-.349	-1.572	1.078	1.262	1.110	-.780
2	-.396	-1.446	-2.476	.693	.977	.826	-.868
3	-.584	-1.435	-2.931	.458	.818	.805	-.871
4	-.802	-1.886	-2.738	.284	.407	.271	-1.159
5	-.910	-1.717	-2.002	-.033	-.023	-.093	-.988
6	.002	.089	.029	-.010	-.050	.060	-.253
7	-1.037	-1.826	-2.449	-.238	-.003	.259	-.663
8	-2.318	-3.349	-3.124	-1.495	-1.318	-.651	-1.171
9	-2.342	-3.438	-3.708	-2.442	-2.391	-1.530	-.900
10	-1.647	-2.454	-2.294	-2.143	-1.843	-1.053	-.799
11	-1.177	-1.542	∞000.000	-1.485	-1.355	-.672	-.576
12	-1.227	-1.079	-.944	-1.043	-.914	-.514	-.619
13	-1.727	-1.149	-.972	-.891	-.808	-.532	-.584
14	-1.475	-1.160	-.987	-.924	-.741	-.557	-.537
15	-.808	-.936	.322	.457	.385	.312	-.113
16	-1.057	-.809	.011	.134	.089	.101	-.109
17	-1.765	-2.241	-.821	-.651	-.709	-.268	-.374
18	-2.610	-1.627	-1.460	-1.421	-1.324	-1.100	-.813
19	-3.316	-2.123	-1.860	-2.045	-1.776	-1.248	-.819
20	-3.435	-2.217	-1.671	-2.284	-1.839	-1.557	-1.127
21	-3.355	-2.019	-1.493	-1.857	-1.813	-1.246	-.854
22	-2.899	-1.537	-1.254	-1.299	-1.283	-1.043	-.944
23	-1.445	-.446	-.595	-.274	-.502	-.488	-.712
24	-.949	-.270	-.260	-.178	-.076	-.162	-.266
25	.932	.979	.449	.856	.691	.545	-.433
26	-.415	.351	.434	-.076	∞000.000	-.017	-.160
27	.714	1.036	1.061	.008	-.096	.009	.020
28	.384	.698	.760	.795	.150	.093	.072
29	-.107	.527	.667	.582	.509	.256	.146
30	.194	.975	1.053	.964	1.054	.744	-.008
31	.278	.959	.945	1.033	1.160	.776	.080
32	.249	.788	.763	.893	.960	.679	.174
33	.179	.470	.510	.618	.619	.372	-.085

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.37	-.717	-1.832	1.077	1.253	1.051	-.754
2	-.774	-1.933	-3.012	.705	1.030	.881	-.855
3	-1.047	-2.131	-3.062	.440	.673	.583	-.800
4	-1.146	-2.164	-2.953	.153	.312	.204	-.895
5	-1.425	-2.040	-2.366	-.100	-.130	-.119	-.786
6	.114	.024	-.066	.006	-.050	-.026	-.050
7	-1.420	-2.073	-2.566	-.373	-.192	.246	-.463
8	-2.864	-3.458	-3.198	-1.553	-1.264	-.486	-.669
9	-2.924	-3.506	-3.488	-2.407	-2.166	-1.169	-.703
10	-1.910	-2.658	-2.294	-2.264	-1.872	-.910	-.561
11	-1.442	-1.714	∞000.000	-1.581	-1.405	-.637	-.504
12	-1.229	-1.194	-1.031	-1.047	-.829	-.464	-.424
13	-1.949	-1.070	-.915	-.773	-.594	-.426	-.390
14	-2.267	-1.207	-1.003	-.881	-.674	-.490	-.430
15	-.920	-.948	.339	.512	.475	.266	-.139
16	-1.043	-.892	-.093	.112	.156	.072	-.107
17	-1.933	-2.488	-2.904	-.706	-.657	-.332	-.374
18	-2.853	-1.725	-1.593	-1.465	-1.234	-.931	-.670
19	-3.205	-2.158	-1.943	-2.061	-1.641	-1.178	-.883
20	-2.998	-2.262	-1.835	-2.233	-1.481	-1.233	-.946
21	-2.811	-1.900	-1.594	-1.764	-1.232	-1.059	-.642
22	-2.489	-1.530	-1.354	-1.439	-1.158	-1.108	-.959
23	-1.384	-.784	-.559	-.295	-.518	-.462	-.588
24	-.868	-.305	-.343	-.086	-.072	-.168	-.290
25	.740	.867	.331	.915	.770	.524	-.394
26	-.809	.421	.473	-.122	∞000.000	-.008	-.018
27	.493	1.019	1.083	.036	-.136	.058	.105
28	.297	.698	.799	.791	.323	.109	.147
29	-.141	.481	.664	.579	.494	.292	.217
30	.032	.889	.966	.989	.940	.678	-.044
31	.284	1.027	.875	1.164	1.172	.685	.052
32	.178	.704	.654	.837	.880	.526	.163
33	.157	.403	.453	.594	.546	.378	.097

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.455	-.887	-1.853	1.130	1.297	.915	-.818
2	-1.254	-2.116	-2.949	.690	.952	.799	-.518
3	-1.377	-2.252	-2.943	.403	.588	.396	-.638
4	-1.606	-2.520	-3.140	.123	.308	.277	-.686
5	-1.883	-2.231	-2.336	-.123	-.077	-.014	-.442
6	.092	-.012	-.009	-.021	-.027	.035	.011
7	-1.575	-2.184	-2.447	-.426	-.104	.499	-.271
8	-2.849	-3.521	-3.469	-1.427	-1.048	-.226	-.452
9	-2.801	-3.657	-3.471	-2.609	-2.222	-1.079	-.549
10	-2.075	-2.583	-2.095	-2.114	-1.697	-.674	-.395
11	-1.516	-1.675	∞000.000	-1.484	-1.182	-.377	-.274
12	-1.156	-1.120	-.897	-.915	-.589	-.262	-.271
13	-2.060	-1.114	-.885	-.770	-.489	-.229	-.296
14	-1.823	-1.103	-.933	-.768	-.606	-.322	-.348
15	-1.044	-.919	.333	.458	.384	.336	.061
16	-1.049	-.783	.029	.110	.295	.226	-.092
17	-1.823	-2.328	-.747	-.682	-.445	-.150	-.204
18	-2.296	-1.571	-1.545	-1.241	-.766	-.700	-.430
19	-2.723	-2.037	-1.996	-1.906	-1.146	-.841	-.656
20	-3.042	-2.038	-1.717	-2.100	-1.285	-1.062	-.898
21	-2.892	-1.894	-1.555	-1.788	-1.168	-.687	-.706
22	-1.853	-1.350	-1.210	-1.230	-.839	-.736	-.574
23	-1.036	-.668	-.437	-.399	-.417	-.420	-.505
24	-.614	-.334	-.298	-.083	-.096	-.075	-.129
25	.336	.777	.307	.979	.828	.201	-.363
26	-.486	.498	.548	-.077	∞000.000	.136	.071
27	.700	1.038	1.042	.016	-.070	.022	.084
28	.172	.678	.857	.756	.254	.153	.168
29	-.168	.470	.792	.564	.483	.263	.179
30	.100	.970	1.033	1.007	1.012	.649	-.061
31	.265	.998	.818	1.055	1.132	.805	.069
32	.210	.784	.831	.827	.852	.615	.141
33	.154	.362	.495	.606	.564	.406	.119

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.486	-1.162	-1.934	1.034	1.215	.626	-.591
2	-1.407	-2.600	-3.263	.570	.871	.565	-.498
3	-1.749	-2.747	-3.280	.295	.588	.435	-.474
4	-1.941	-2.886	-3.276	.101	.264	.228	-.350
5	-2.242	-2.461	-2.467	-.353	-.050	.099	-.369
6	-.004	-.021	-.037	.042	.068	.135	.071
7	-1.758	-2.102	-2.355	-.314	.096	.630	-.129
8	-2.916	-3.554	-2.775	-1.380	-1.018	-.180	-.289
9	-3.043	-3.607	-3.209	-2.492	-2.076	-.763	-.224
10	-2.069	-2.651	-1.988	-2.059	-1.510	-.390	-.158
11	-1.461	-1.675	∞000.000	-1.351	-.992	-.241	-.198
12	-1.155	-1.012	-.876	-.844	-.548	-.188	-.182
13	-2.030	-1.122	-.993	-.790	-.499	-.263	-.281
14	-1.749	-1.124	-1.037	-.760	-.456	-.244	-.295
15	-1.122	-.854	.306	.496	.496	.259	.004
16	-1.081	-.752	-.022	.157	.281	.088	-.108
17	-1.720	-2.293	-.892	-.563	-.193	-.189	-.211
18	-2.212	-1.493	-1.440	-1.156	-.673	-.492	-.438
19	-2.969	-1.945	-1.927	-1.644	-1.046	-.789	-.604
20	-2.341	-1.703	-1.798	-1.779	-1.217	-.928	-.790
21	-2.294	-1.703	-1.619	-1.624	-1.108	-.668	-.559
22	-1.682	-1.245	-1.266	-1.238	-.917	-.667	-.529
23	-.961	-.598	-.373	-.279	-.359	-.321	-.422
24	-.567	-.376	-.318	-.099	-.141	-.101	-.144
25	.099	.567	.332	.985	.858	.212	-.227
26	-.268	.451	.448	-.155	∞000.000	.130	.066
27	.185	.992	1.062	.133	-.018	.179	.130
28	.009	.612	.796	.820	.208	.221	.182
29	-.209	.385	.618	.568	.496	.254	.154
30	.040	1.048	1.094	1.118	1.030	.721	.047
31	.140	1.064	.781	1.083	1.225	.796	.154
32	.160	.705	.894	.921	.903	.547	.241
33	.092	.304	.447	.558	.529	.324	.112

Table 30. - Continued.

(b) $C_{T,s} = 0.80$, $q_s = 19.95$

$\alpha = 65°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-1.660	-1.792	-2.010	.853	1.055	.233	-.466
2	-2.111	-3.039	-3.439	.442	.801	.306	-.314
3	-2.195	-3.366	-3.613	.187	.540	.408	-.257
4	-2.300	-3.349	-3.440	-.113	.186	.141	-.265
5	-2.635	-2.760	-2.618	-.396	-.231	-.103	-.342
6	-.376	-.275	-.124	-.080	-.042	.031	.031
7	-1.931	-2.562	-2.582	-.565	-.082	.319	-.096
8	-4.040	-3.903	-2.977	-1.893	-1.191	-.112	-.083
9	-3.814	-4.142	-3.498	-2.746	-1.994	-.437	-.109
10	-2.173	-2.881	-2.065	-2.257	-1.569	-.447	-.214
11	-1.664	-1.422	.000.000	-1.574	-1.161	-.358	-.226
12	-1.308	-1.262	-1.057	-1.049	-.672	-.298	-.320
13	-1.721	-1.184	-1.051	-.800	-.401	-.276	-.277
14	-1.488	-1.075	-.991	-.782	-.410	-.231	-.250
15	-1.025	-.893	.266	.410	.408	.323	-.056
16	-.924	-.757	-.008	.133	.349	.177	.048
17	-1.556	-2.266	-.911	-.665	-.418	-.167	-.204
18	-1.878	-1.503	-1.502	-1.317	-.794	-.692	-.418
19	-2.233	-1.915	-1.987	-1.882	-1.322	-.746	-.625
20	-2.194	-1.708	-1.741	-1.718	-1.226	-.764	-.797
21	-1.756	-1.493	-1.579	-1.818	-1.247	-.635	-.644
22	-1.436	-1.190	-1.270	-1.147	-.884	-.669	-.513
23	-.748	-.598	-.422	-.347	-.356	-.292	-.235
24	-.538	-.383	-.397	-.194	-.168	-.147	-.101
25	-.482	.433	.330	.980	.828	.149	-.247
26	-.442	.313	.244	-.270	.000.000	.004	.047
27	.009	.797	.976	-.018	-.119	.031	.060
28	-.122	.489	.756	.668	.277	.052	.098
29	-.332	.265	.510	.407	.347	.104	.147
30	.153	.934	.752	.902	.921	.694	.078
31	.142	.887	.676	1.007	1.062	.726	.067
32	.101	.526	.527	.728	.751	.559	.234
33	.048	.228	.447	.546	.516	.378	.054

$\alpha = 70°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-2.493	-2.514	-2.293	1.023	1.223	.349	-.174
2	-2.208	-3.579	-3.430	.509	.820	.347	-.082
3	-2.174	-3.433	-3.594	.298	.614	.142	-.402
4	-2.325	-3.617	-3.519	-.007	.314	.309	-.225
5	-2.479	-3.162	-2.688	-.258	-.088	.106	-.267
6	-.347	-.298	-.161	-.040	-.002	.104	.051
7	-1.748	-2.623	-2.518	-.571	-.079	.291	-.217
8	-2.781	-3.991	-2.982	-1.732	-1.161	-.291	-.304
9	-2.604	-4.051	-3.432	-2.677	-1.961	-.484	-.294
10	-1.888	-2.684	-1.844	-2.030	-1.252	-.361	-.192
11	-1.418	-1.535	.000.000	-1.298	-.767	-.276	-.260
12	-1.045	-1.023	-.890	-.690	-.398	-.221	-.315
13	-1.266	-.987	-.918	-.695	-.348	-.236	-.318
14	-1.161	-.945	-.959	-.646	-.329	-.233	-.270
15	-.829	-.744	.346	.568	.561	.400	.001
16	-.552	-.684	-.072	.208	.337	.161	-.037
17	-1.011	-1.827	-.823	-.615	-.331	-.171	-.292
18	-1.376	-1.198	-1.297	-1.090	-.691	-.418	-.432
19	-1.661	-1.512	-1.733	-1.415	-1.057	-.640	-.596
20	-1.257	-1.357	-1.695	-1.512	-.863	-.702	-.731
21	-1.124	-1.236	-1.517	-1.250	-.812	-.535	-.449
22	-.762	-.893	-1.179	-1.064	-.930	-.432	-.446
23	-.478	-.272	-.744	-.329	-.383	-.317	-.400
24	-.283	-.298	-.228	-.078	-.037	-.088	-.071
25	-.474	-.059	.295	.936	.768	-.005	-.098
26	-.597	.348	.256	-.234	.000.000	.074	.018
27	-.077	.715	.913	.036	-.005	.060	.098
28	-.009	.453	.692	.721	.134	.092	.075
29	-.069	.352	.452	.504	.433	.253	.180
30	.263	.984	.752	1.009	1.034	.711	-.048
31	.196	.956	.746	1.193	1.178	.704	.109
32	.206	.440	.490	.847	.778	.508	.276
33	.152	.175	.435	.570	.508	.381	.024

$\alpha = 75°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-2.650	-3.109	-2.236	1.015	1.205	.233	-.036
2	-2.532	-4.361	-3.561	.561	.989	.549	.018
3	-2.500	-4.399	-3.915	.223	.719	.365	-.123
4	-2.269	-3.683	-3.322	-.076	.320	.024	-.111
5	-2.493	-3.039	-2.527	-.174	.239	.090	-.120
6	-.553	-.504	-.240	-.136	0.	.067	-.008
7	-1.698	-2.649	-2.403	-.633	.085	.099	-.159
8	-2.854	-3.930	-2.748	-1.650	-.814	-.053	-.160
9	-2.348	-3.673	-2.705	-2.432	-1.484	-.172	-.174
10	-1.588	-2.539	-1.850	-2.057	-1.055	-.114	-.154
11	-1.448	-1.490	.000.000	-1.322	-.738	-.152	-.250
12	-1.140	-1.068	-.965	-.766	-.427	-.257	-.356
13	-.977	-.869	-.887	-.655	-.321	-.220	-.305
14	-.946	-.775	-.819	-.652	-.388	-.213	-.329
15	-.703	-.822	.184	.415	.401	.373	-.055
16	-.661	-.737	-.178	.101	.239	.011	-.189
17	-.913	-1.649	-.688	-.451	-.304	-.088	-.292
18	-1.186	-1.109	-1.265	-.901	-.633	-.381	-.423
19	-1.402	-1.441	-1.706	-1.238	-.882	-.327	-.380
20	-1.150	-1.319	-1.499	-.852	-.906	-.355	-.446
21	-.827	-1.076	-1.421	-.980	-.730	-.331	-.429
22	-.716	-.900	-1.022	-.570	-.233	-.242	-.240
23	-.420	-.334	-.431	-.413	-.392	-.266	-.350
24	-.262	-.249	-.148	-.209	-.189	-.175	-.257
25	-1.413	-.812	.277	.855	.707	-.056	.017
26	-.877	.229	.040	-.295	.000.000	.021	-.043
27	-.284	.531	.887	-.086	.010	.015	-.069
28	-.102	.267	.532	.590	.051	.071	.128
29	-.183	.206	.343	.356	.347	.203	.135
30	.116	.772	.573	.960	.946	.689	.060
31	.153	.714	.530	.987	.939	.674	.158
32	.106	.385	.407	.699	.648	.478	.154
33	.030	.137	.362	.459	.301	.311	.164

Table 30. - Continued.

(c) $C_{T,S} = 0.60$, $q_s = 21.57$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.985	.963	.497	-.052	.618	.746	.538
2	.985	.970	.607	.471	1.089	1.210	.835
3	.970	.875	.587	.618	1.239	1.282	.816
4	.908	.549	.367	.750	1.148	1.084	.818
5	.398	.218	.274	.739	.946	.827	.370
6	-.174	-.128	-.174	-.237	-.119	.277	-.383
7	.218	.069	-.161	.436	.606	.600	.327
8	-.744	-1.097	-.921	-.214	-.259	-.245	-.474
9	-1.282	-1.903	-1.985	-1.106	-1.301	-1.240	-1.212
10	-.911	-1.451	-1.538	-1.123	-1.110	-.995	-.973
11	-.755	-1.255	.000,000	-1.041	-1.087	-.825	-.844
12	-1.195	-.852	-.841	-.764	-.782	-.570	-.607
13	-.549	-.801	-.718	-.555	-.565	-.453	-.473
14	-.489	-.743	-.695	-.558	-.497	-.447	-.481
15	-.213	-.460	.220	.057	.065	.130	-.104
16	-.281	-.457	.026	-.096	-.076	-.007	-.096
17	-.628	-1.496	-.589	-.304	-.244	-.104	-.259
18	-1.047	-1.141	-1.099	-.720	-.423	-.379	-.459
19	-1.488	-1.833	-1.634	-1.065	-.568	-.524	-.636
20	-1.710	-1.697	-1.559	-1.080	-.483	-.488	-.607
21	-1.642	-1.444	-1.361	-.889	-.230	-.223	-.309
22	-1.431	-.793	-.676	-.346	-.115	-.112	-.224
23	-1.161	-.290	-.230	-.219	-.150	-.091	-.210
24	-.748	-.313	-.231	-.227	-.161	-.106	-.206
25	.139	.317	.083	.494	-.103	-.152	-.162
26	-.456	-.122	-.199	-.424	.000,000	-.344	-.316
27	-.253	-.127	-.173	-.248	-.062	-.024	-.140
28	-.002	-.105	.177	-.150	-.060	-.084	-.165
29	.184	.349	.385	.038	.004	.032	-.037
30	.181	.560	.599	-.003	.034	.100	-.047
31	.505	.439	.747	.096	.067	.162	.111
32	.499	.758	.714	.302	.168	.274	.288
33	.465	.567	.594	.566	.063	.310	.149

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.000	1.094	.646	.301	.948	1.094	.892
2	.978	.788	.209	.560	1.199	1.246	.854
3	.716	.591	.061	.551	1.176	1.194	.725
4	.462	.261	-.158	.651	1.005	.962	.480
5	.226	-.086	-.145	.444	.601	.504	.157
6	-.068	.009	.020	-.061	.059	.353	.019
7	-.026	-.433	-.856	.296	.515	.579	.152
8	-.876	-1.495	-1.420	-.509	-.829	-.630	-.734
9	-1.510	-2.219	-2.378	-1.483	-1.754	-1.608	-1.602
10	-1.117	-1.785	-1.856	-1.414	-1.575	-1.361	-1.316
11	-.841	-1.342	.000,000	-1.228	-1.312	-1.059	-.955
12	-1.403	-.953	-.937	-.892	-.957	-.713	-.701
13	-.779	-.938	-.809	-.693	-.739	-.582	-.550
14	-.923	-.838	-.749	-.626	-.624	-.446	-.466
15	-.287	-.545	.234	.151	.149	.189	-.014
16	-.355	-.621	.039	.013	.012	.071	-.059
17	-.844	-1.785	-.585	-.391	-.454	-.220	-.287
18	-1.418	-1.352	-1.253	-.892	-.740	-.697	-.597
19	-2.015	-1.747	-1.580	-1.050	-.941	-1.042	-.988
20	-2.242	-1.773	-1.449	-1.487	-.996	-.936	-.818
21	-2.166	-1.545	-1.248	-.776	-.832	-.611	-.680
22	-1.824	-1.010	-.752	-.371	-.186	-.242	-.425
23	-1.171	-.225	-.084	-.223	-.137	-.157	-.277
24	-.417	-.209	-.077	-.229	-.148	-.119	-.146
25	.432	.679	.475	-.015	.131	.274	.266
26	-.034	.014	-.249	-.230	.000,000	.048	-.088
27	-.100	-.002	.401	-.059	-.009	.063	-.055
28	.194	.356	.507	-.021	-.018	.123	.032
29	.124	.455	.432	.203	.106	.238	.214
30	.389	.971	.796	.246	.205	.272	.274
31	.584	.963	.814	.525	.260	.297	.381
32	.584	.779	.673	.570	.426	.433	.455
33	.383	.803	.587	.690	.339	.487	.348

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.008	.961	-.147	.753	1.213	1.368	.854
2	.741	.496	-.519	.648	1.282	1.302	.672
3	.488	.193	-.577	.595	1.021	1.020	.491
4	.253	-.131	-.722	.416	.757	.715	.146
5	.038	-.444	-.682	.243	.349	.276	-.138
6	-.154	-.054	-.027	.021	.090	.318	.025
7	-.311	-.844	-1.377	-.210	.368	.042	-.349
8	-1.201	-1.474	-1.993	-.826	-.997	-1.048	-1.266
9	-1.774	-2.632	-2.997	-1.865	-2.340	-2.113	-2.003
10	-1.312	-2.052	-2.199	-1.728	-1.964	-1.706	-1.557
11	-1.040	-1.506	.000,000	-1.401	-1.656	-1.260	-1.212
12	-1.447	-1.000	-.947	-.964	-1.113	-.771	-.818
13	-.940	-.940	-.854	-.743	-.892	-.646	-.740
14	-1.108	-1.043	-.885	-.769	-.851	-.612	-.626
15	-.447	-.821	.227	.319	.282	.360	.106
16	-.532	-.823	-.048	.097	-.030	.051	.037
17	-1.174	-2.114	-.716	-.460	-.652	-.412	-.384
18	-1.927	-1.568	-1.362	-1.111	-1.145	-1.164	-.872
19	-2.429	-2.135	-1.876	-1.812	-1.682	-1.604	-1.195
20	-3.001	-2.062	-1.700	-1.791	-1.501	-1.486	-1.274
21	-3.129	-1.899	-1.438	-1.429	-1.317	-1.059	-1.053
22	-2.614	-1.432	-1.052	-.962	-.565	-.525	-.663
23	-1.504	-.392	-.257	-.152	-.228	-.085	-.270
24	-1.154	-.261	-.230	-.198	-.226	-.171	-.267
25	.553	.790	.522	.304	.380	.481	.388
26	-.004	-.174	.014	.009	.000,000	.181	-.056
27	-.004	.054	.581	-.014	.020	.214	.047
28	.260	.725	.540	.230	.035	.205	.218
29	.142	.519	.530	.526	.436	.501	.286
30	.471	.940	.831	.787	.532	.638	.155
31	.615	.942	.737	.858	.598	.838	.644
32	.475	.742	.567	.714	.695	.845	.805
33	.275	.606	.524	.646	.528	.766	.327

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.953	.676	-.391	.732	1.308	1.384	.756
2	.697	-.045	-1.236	.445	1.036	.978	.125
3	.295	-.348	-1.289	.321	.801	.676	.029
4	.054	-.869	-1.416	.077	.449	.214	-.410
5	-.138	-.849	-1.232	-.113	-.043	-.237	-.648
6	-.049	.136	-.020	.025	.042	.038	-.081
7	-.667	-1.279	-1.913	-.401	-.419	-.493	-.701
8	-1.548	-2.520	-2.994	-1.265	-1.509	-1.585	-1.697
9	-1.998	-2.984	-3.475	-2.344	-2.781	-2.722	-2.447
10	-1.649	-2.215	-2.422	-2.039	-2.148	-2.035	-1.802
11	-1.447	-1.452	.000,000	-1.479	-1.692	-1.407	-1.363
12	-1.580	-1.128	-1.036	-1.081	-1.281	-1.014	-1.047
13	-1.130	-1.032	-.881	-.822	-.995	-.830	-.867
14	-1.512	-1.077	-.901	-.798	-.998	-.814	-.726
15	-.605	-.777	.278	.470	.443	.396	.032
16	-.797	-.607	-.010	.161	-.013	-.032	-.041
17	-1.402	-2.331	-.895	-.602	-.916	-.689	-.465
18	-2.423	-1.662	-1.424	-1.254	-1.555	-1.460	-1.065
19	-3.387	-2.266	-1.883	-1.992	-2.025	-1.786	-1.386
20	-3.784	-2.271	-1.861	-2.126	-1.970	-1.753	-1.571
21	-3.922	-2.154	-1.529	-1.775	-1.735	-1.581	-1.380
22	-3.396	-1.626	-1.140	-1.338	-1.053	-.884	-.997
23	-1.722	-.491	-.347	-.261	-.234	-.231	-.508
24	-1.568	-.226	-.050	-.230	-.230	-.267	-.339
25	.747	1.020	.698	.592	.658	.743	.388
26	.192	-.154	.161	-.171	.000,000	.084	-.074
27	.274	.759	.860	.199	.101	.101	.008
28	.404	.702	.684	.713	.155	.203	.303
29	.104	.584	.627	.692	.673	.582	.346
30	.404	.985	.901	1.102	.842	.865	.084
31	.529	.948	.860	1.129	1.065	1.038	.575
32	.416	.791	.732	.915	.917	.847	.726
33	.240	.586	.529	.701	.647	.514	.140

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.796	.167	-.963	.801	1.259	1.281	-.046
2	.319	-.742	-2.040	.321	.873	.816	-.387
3	.080	-1.046	-2.038	.142	.587	.533	-.665
4	-.157	-1.280	-2.172	-.076	.168	.036	-.856
5	-.275	-1.375	-1.884	-.372	-.326	-.436	-.970
6	.125	.134	-.057	.074	.031	-.072	-.166
7	-.969	-1.741	-2.538	-.767	-.682	-.732	-1.036
8	-1.827	-3.016	-3.006	-1.869	-1.923	-1.783	-1.963
9	-2.194	-3.504	-4.149	-2.968	-3.327	-2.926	-2.646
10	-1.628	-2.501	-2.760	-2.447	-2.514	-2.209	-1.924
11	-1.149	-1.670	.000,000	-1.685	-1.882	-1.445	-1.319
12	-1.593	-1.136	-.994	-1.120	-1.277	-.942	-.980
13	-1.356	-1.167	-.917	-.853	-1.079	-.748	-.740
14	-1.478	-1.182	-.949	-.933	-1.111	-.835	-.767
15	-.822	-.848	.330	.534	.396	.500	.153
16	-1.062	-.861	-.034	.206	.036	-.009	.082
17	-2.037	-2.407	-.840	-.601	-1.021	-.650	-.416
18	-2.978	-1.836	-1.436	-1.386	-1.688	-1.442	-1.011
19	-4.046	-2.426	-1.883	-2.155	-2.363	-1.815	-1.385
20	-4.417	-2.488	-1.677	-2.319	-2.223	-1.750	-1.622
21	-4.248	-2.324	-1.564	-2.054	-1.972	-1.486	-1.371
22	-3.548	-1.787	-1.201	-1.287	-1.177	-1.120	-1.133
23	-1.970	-.630	-.365	-.303	-.267	-.267	-.631
24	-1.786	-.164	-.144	-.180	-.343	-.231	-.386
25	.890	1.038	.563	.429	.934	1.013	.247
26	-.072	-.170	.310	-.277	.000,000	.154	.016
27	.192	.951	.956	.531	.029	.129	.264
28	.479	.710	.765	.863	.629	.601	.483
29	.056	.576	.671	.713	.679	.620	.409
30	.230	.915	.952	1.124	1.063	.972	-.008
31	.450	.982	.876	1.189	1.156	1.152	.503
32	.373	.809	.731	.973	.989	.888	.743
33	.235	.541	.513	.677	.670	.544	.102

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.731	-.461	-1.925	.917	1.312	1.386	-.797
2	-.009	-1.610	-3.133	.173	.724	.643	-1.036
3	-.141	-1.875	-3.230	-.217	.312	.319	-1.252
4	-.366	-1.988	-3.015	-.373	-.152	-.212	-1.235
5	-.569	-1.830	-2.320	-.591	-.583	-.609	-1.188
6	.104	.043	-.101	.041	-.015	-.129	-.093
7	-1.109	-2.183	-3.054	-1.019	-.876	-.659	-1.195
8	-2.189	-3.707	-3.764	-2.369	-2.247	-1.780	-2.074
9	-2.359	-3.811	-4.491	-3.346	-3.527	-2.884	-2.473
10	-1.715	-2.622	-2.868	-2.568	-2.710	-2.086	-1.751
11	-1.241	-1.757	.000,000	-1.833	-1.959	-1.257	-1.162
12	-1.723	-1.326	-1.149	-1.293	-1.446	-.815	-.843
13	-1.578	-1.181	-.954	-.947	-1.138	-.645	-.717
14	-2.514	-1.296	-1.022	-1.031	-1.257	-.682	-.662
15	-1.074	-.897	.356	.602	.438	.477	.169
16	-1.438	-.982	-.043	.234	.016	.075	.042
17	-2.412	-2.689	-.945	-.715	-1.140	-.610	-.381
18	-3.586	-2.017	-1.696	-1.633	-1.914	-1.489	-.875
19	-4.288	-2.390	-1.923	-2.211	-2.399	-1.601	-1.319
20	-4.697	-2.745	-1.848	-2.595	-2.492	-1.821	-1.644
21	-4.341	-2.474	-1.614	-2.280	-2.260	-1.664	-1.460
22	-3.391	-1.752	-1.117	-1.473	-1.420	-1.098	-1.131
23	-1.970	-.603	-.344	-.340	-.317	-.303	-.730
24	-1.715	-.211	-.216	-.183	-.295	-.093	-.310
25	.979	.937	.314	1.210	1.131	1.209	-.169
26	-.154	.399	.449	-.243	.000,000	.219	.166
27	.669	1.080	1.080	.732	-.061	.210	.313
28	.502	.864	.896	1.009	1.017	.687	.398
29	.054	.618	.744	.745	.665	.616	.393
30	.119	.967	.949	1.210	1.149	1.173	.051
31	.343	1.004	.848	1.299	1.266	1.322	.475
32	.337	.834	.686	1.006	.994	.938	.724
33	.228	.558	.532	.792	.706	.627	.223

Table 30. - Continued.

(c) $C_{T,S} = 0.60$, $q_s = 21.57$

$\alpha = 35°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.472	-1.049	-2.419	.796	1.239	1.275	-1.040
2	-.288	-2.214	-3.775	-.092	.469	.492	-1.325
3	-.506	-2.617	-3.990	-.361	-.005	.163	-1.517
4	-.798	-2.858	-3.772	-.667	-.319	-.358	-1.525
5	-1.104	-2.279	-2.821	-.751	-.691	-.709	-1.348
6	.189	.028	-.081	.082	-.008	-.110	-.258
7	-1.249	-2.258	-3.023	-1.264	-.947	-.663	-1.160
8	-2.393	-3.795	-3.781	-2.594	-2.352	-1.772	-2.073
9	-2.630	-4.154	-4.808	-3.693	-3.651	-2.617	-2.314
10	-1.952	-2.962	-3.137	-3.010	-2.889	-1.979	-1.736
11	-1.428	-1.897	*000.000	-1.963	-2.039	-1.085	-1.037
12	-1.697	-1.344	-1.140	-1.346	-1.430	-.685	-.873
13	-1.962	-1.346	-1.128	-1.091	-1.197	-.676	-.748
14	-2.619	-1.340	-1.087	-1.072	-1.134	-.588	-.634
15	-1.299	-.999	.343	.622	.460	.579	.135
16	-1.377	-.911	-.066	.220	.056	.146	.011
17	-2.414	-2.652	-.998	-.768	-1.147	-.545	-.451
18	-3.462	-2.112	-1.806	-1.808	-2.001	-1.547	-1.164
19	-4.686	-2.676	-2.147	-2.624	-2.589	-1.720	-1.367
20	-4.187	-2.525	-1.799	-2.502	-2.351	-1.604	-1.477
21	-3.410	-2.351	-1.642	-2.400	-2.327	-1.746	-1.481
22	-2.492	-1.662	-1.192	-1.551	-1.414	-1.085	-1.112
23	-1.475	-.636	-.443	-.340	-.342	-.365	-.804
24	-1.503	-.294	-.242	-.214	-.348	-.099	-.415
25	.905	.665	.001	1.184	1.137	1.077	-.243
26	-.072	.624	.575	-.331	*000.000	.301	.161
27	.462	1.059	1.062	.987	.819	.266	.319
28	.433	.772	.820	.857	1.013	.605	.308
29	-.861	.606	.733	.725	.639	.596	.351
30	.039	1.005	1.042	1.229	1.185	1.139	.048
31	.478	1.171	1.030	1.414	1.463	1.552	.516
32	.340	.884	.746	1.068	1.031	.955	.563
33	.227	.523	.543	.730	.651	.559	.202

$\alpha = 40°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.115	-1.554	-3.015	.596	.980	.857	-1.493
2	-.664	-2.908	-4.409	-.244	.233	.139	-1.629
3	-.979	-3.344	-4.685	-.625	-.162	-.201	-1.717
4	-1.149	-3.081	-4.207	-.925	-.581	-.711	-1.541
5	-1.603	-2.633	-3.208	-1.064	-.918	-.948	-1.476
6	.249	-.017	-.157	.112	.060	-.096	-.130
7	-1.579	-2.550	-3.392	-1.452	-1.124	-.732	-1.257
8	-2.903	-4.414	-4.288	-2.921	-2.489	-1.829	-1.963
9	-2.808	-4.352	-4.919	-3.983	-3.800	-2.624	-2.165
10	-1.979	-2.907	-2.954	-3.023	-2.694	-1.692	-1.298
11	-1.443	-1.859	*000.000	-1.995	-1.875	-.913	-.855
12	-1.614	-1.334	-1.138	-1.318	-1.238	-.584	-.697
13	-1.437	-1.260	-1.032	-1.030	-.905	-.509	-.656
14	-2.387	-1.250	-1.008	-1.030	-.885	-.491	-.487
15	-1.037	-.986	.444	.649	.450	.505	.043
16	-1.330	-.974	-.002	.222	.203	.189	.014
17	-2.302	-2.873	-1.023	-.908	-1.071	-.602	-.626
18	-3.306	-2.911	-1.744	-1.790	-1.671	-1.400	-.973
19	-3.533	-2.598	-2.151	-2.637	-2.351	-1.744	-1.424
20	-3.294	-2.557	-1.905	-2.614	-2.189	-1.731	-1.413
21	-3.356	-2.253	-1.753	-2.314	-2.200	-1.552	-1.481
22	-2.649	-1.675	-1.346	-1.700	-1.531	-1.208	-.991
23	-1.472	-.701	-.492	-.341	-.489	-.584	-.889
24	-1.196	-.352	-.290	-.115	-.117	-.100	-.328
25	1.003	.542	-.313	1.314	1.297	1.166	-.763
26	.020	.824	.738	-.445	*000.000	.244	.142
27	.909	1.076	1.039	1.209	.172	.264	.382
28	.438	.886	.814	.893	1.007	.761	.370
29	-.050	.644	.767	.725	.651	.529	.373
30	.080	1.125	.992	1.256	1.224	1.043	.227
31	.377	1.153	.907	1.288	1.324	1.262	.469
32	.406	.933	.811	1.128	1.089	.919	.522
33	.294	.633	.574	.823	.744	.535	.106

$\alpha = 45°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-.358	-2.698	-4.533	.358	.986	.296	-2.452
2	-1.187	-3.707	-5.297	-.498	.090	-.218	-2.029
3	-1.383	-3.913	-5.151	-.761	-.387	-.553	-1.783
4	-1.657	-3.922	-5.027	-1.259	-.891	-1.048	-1.473
5	-2.164	-3.140	-3.714	-1.244	-1.095	-1.162	-1.265
6	.227	-.111	-.199	.206	.082	-.100	-.291
7	-1.718	-2.727	-3.393	-1.492	-1.125	-.682	-1.118
8	-3.031	-4.519	-4.204	-3.084	-2.685	-1.865	-1.618
9	-3.082	-4.580	-4.867	-4.147	-3.841	-2.386	-1.452
10	-2.166	-3.141	-2.981	-3.238	-2.871	-1.697	-1.053
11	-1.641	-2.040	*000.000	-2.073	-1.877	-.862	-.716
12	-1.480	-1.319	-1.134	-1.272	-1.090	-.518	-.451
13	-1.887	-1.282	-1.103	-.972	-.858	-.547	-.540
14	-1.942	-1.369	-1.149	-1.060	-.974	-.527	-.479
15	-.921	-.910	.478	.651	.460	.479	.118
16	-.935	-.938	-.059	.174	.102	.101	-.033
17	-1.962	-2.780	-.937	-.826	-.909	-.489	-.420
18	-2.193	-1.822	-1.495	-1.580	-1.405	-1.092	-.801
19	-2.853	-2.434	-2.016	-2.480	-1.971	-1.542	-1.181
20	-2.823	-2.276	-1.731	-2.606	-2.040	-1.435	-1.295
21	-2.823	-2.060	-1.668	-2.171	-1.735	-1.235	-.873
22	-2.325	-1.466	-1.224	-1.577	-1.351	-1.138	-.933
23	-1.615	-.775	-.441	-.410	-.709	-.679	-.860
24	-1.013	-.376	-.249	.014	-.059	-.198	-.195
25	.900	.112	-.673	1.245	1.296	.781	-1.218
26	.164	.870	.792	-.075	*000.000	.148	.220
27	.767	1.020	.885	1.259	.307	.424	.396
28	.396	.882	.864	.956	.945	.523	.423
29	-.139	.557	.700	.719	.603	.461	.354
30	.205	1.143	.977	1.307	1.236	1.037	.281
31	.276	1.125	.792	1.288	1.284	1.210	.384
32	.331	.890	.830	1.093	1.001	.796	.573
33	.149	.499	.582	.774	.654	.484	.171

$\alpha = 50°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-.736	-3.433	-4.806	.076	.737	-.718	-2.619
2	-1.785	-4.780	-5.944	-.988	-.229	-.786	-1.782
3	-2.023	-5.155	-6.180	-1.377	-.794	-1.088	-1.933
4	-2.284	-4.593	-5.249	-1.641	-1.085	-1.134	-1.108
5	-2.773	-3.741	-3.898	-1.743	-1.371	-1.259	-1.240
6	.041	-.216	-.341	.108	.021	-.141	-.304
7	-2.064	-3.152	-3.813	-1.912	-1.308	-.851	-1.387
8	-3.270	-4.774	-4.255	-3.245	-2.644	-1.507	-1.260
9	-3.443	-4.811	-4.788	-4.283	-3.810	-2.085	-.968
10	-2.364	-3.240	-2.973	-3.276	-2.833	-1.458	-.844
11	-1.720	-1.943	*000.000	-1.965	-1.806	-.673	-.520
12	-1.541	-1.263	-1.174	-1.259	-1.075	-.482	-.498
13	-1.827	-1.292	-1.213	-1.084	-.883	-.394	-.451
14	-1.846	-1.267	-1.176	-1.099	-.829	-.505	-.512
15	-.991	-1.025	.471	.572	.389	.440	.082
16	-.934	-.965	-.088	.088	.165	.135	.006
17	-1.496	-2.706	-1.065	-.968	-1.046	-.463	-.473
18	-2.023	-1.786	-1.673	-1.825	-1.544	-1.124	-.839
19	-2.407	-2.204	-2.022	-2.524	-2.063	-1.442	-1.082
20	-2.341	-2.070	-1.873	-2.565	-1.742	-1.369	-1.173
21	-2.348	-1.888	-1.727	-2.247	-1.934	-1.327	-1.053
22	-1.870	-1.371	-1.306	-1.644	-1.384	-1.057	-1.032
23	-1.133	-.682	-.523	-.354	-.673	-.560	-.683
24	-.436	-.347	-.245	-.052	-.104	-.103	-.215
25	.293	-.381	-1.338	1.225	1.368	.402	-1.347
26	-.188	.744	.589	.032	*000.000	.185	.103
27	.403	1.024	.745	1.229	.371	.356	.270
28	.166	.771	.726	.830	.895	.430	.309
29	-.126	.498	.561	.642	.510	.436	.283
30	.042	1.074	.817	1.172	1.189	.883	.190
31	.294	1.103	.816	1.292	1.292	1.198	.378
32	.238	.844	.691	.996	.908	.771	.451
33	.156	.345	.523	.724	.550	.449	.186

Table 30. - Continued.

(c) $C_{T,s} = 0.60$, $q_s = 21.57$

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.403	-4.564	-5.369	-.154	.631	-.738	-2.032
2	-2.343	-5.989	-6.875	-1.469	-.548	-1.196	-1.942
3	-2.246	-5.774	-6.346	-1.605	-.887	-1.220	-1.656
4	-2.547	-5.489	-5.993	-1.969	-1.610	-1.539	-1.453
5	-3.149	-4.095	-4.246	-1.934	-1.626	-1.416	-1.463
6	-.163	-.380	-.697	0.	.030	-.228	-.450
7	-2.154	-3.369	-3.931	-2.043	-1.427	-1.440	-1.090
8	-3.359	-5.195	-4.118	-3.451	-2.721	-1.970	-1.103
9	-3.109	-4.942	-4.447	-4.480	-3.855	-2.220	-.731
10	-2.243	-3.343	-2.869	-3.400	-2.842	-1.774	-.496
11	-1.753	-1.965	*000.000	-2.070	-1.774	-.586	-.457
12	-1.816	-1.434	-1.451	-1.415	-1.139	-.370	-.420
13	-1.716	-1.155	-1.208	-1.044	-.850	-.470	-.529
14	-1.412	-1.187	-1.265	-1.132	-.926	-.483	-.753
15	-.462	-.937	.236	.494	.406	.550	.058
16	-.467	-.966	-.165	.128	.109	.050	-.104
17	-1.371	-2.297	-1.053	-.928	-.926	-.487	-.409
18	-1.792	-1.554	-1.606	-1.704	-1.449	-.878	-.716
19	-1.811	-1.462	-2.173	-2.522	-2.115	-1.166	-.769
20	-1.444	-1.803	-2.022	-2.520	-1.885	-1.130	-1.043
21	-1.749	-1.535	-1.764	-2.045	-1.825	-.873	-.753
22	-1.514	-1.207	-1.419	-1.678	-1.518	-.910	-.890
23	-1.019	-.645	-.649	-.535	-.547	-.472	-.728
24	-.788	-.304	-.316	.240	-.150	-.150	-.304
25	-.521	-.853	-1.791	1.189	1.455	-.198	*1.423
26	-.447	.744	.584	.171	*000.000	.300	.054
27	.049	.984	.499	1.207	.593	.345	.290
28	.090	.707	.580	.855	.871	.424	.348
29	-.113	.470	.530	.679	.591	.517	.366
30	.203	1.038	.709	1.221	1.306	.999	.173
31	.285	.946	.717	1.232	1.345	1.156	.420
32	.153	.556	.701	.986	.867	.678	.402
33	.124	.344	.598	.686	.618	.593	.230

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.255	-5.503	-6.432	-.606	.396	-2.170	-2.432
2	-2.771	-6.941	-7.965	-1.854	-.755	-2.103	-1.652
3	-2.763	-6.968	-7.821	-2.075	-1.285	-1.816	-1.395
4	-2.636	-5.846	-6.276	-2.275	-1.533	-1.522	-1.235
5	-3.294	-4.442	-4.410	-2.025	-1.627	-1.247	-1.324
6	-.635	-.742	-.787	.025	-.063	-.502	-.766
7	-2.159	-3.683	-4.019	-2.275	-1.555	-1.039	-1.356
8	-3.055	-5.254	-4.237	-3.692	-2.920	-1.443	-1.022
9	-2.416	-4.591	-4.210	-4.458	-3.948	-1.864	-1.148
10	-2.123	-3.105	-2.683	-3.443	-2.874	-1.128	-.792
11	-1.690	-1.864	*000.000	-2.102	-1.854	-.602	-.626
12	-1.708	-1.199	-1.285	-1.345	-1.174	-.494	-.424
13	-1.448	-1.120	-1.157	-1.081	-.979	-.469	-.444
14	-1.206	-1.038	-1.132	-1.069	-.905	-.437	-.497
15	-.749	-.871	.262	.465	.297	.384	.135
16	-.730	-.788	-.155	.072	-.032	.101	.002
17	-1.232	-2.069	-1.000	-.917	-.956	-.530	-.441
18	-1.345	-1.291	-1.612	-1.701	-1.431	-.896	-.709
19	-1.608	-1.577	-1.910	-2.365	-1.951	-.850	-.583
20	-1.420	-1.466	-1.993	-2.379	-1.910	-.829	-.962
21	-1.252	-1.243	-1.484	-1.763	-1.644	-.906	-.968
22	-1.040	-.984	-1.222	-1.437	-1.348	-.673	-.764
23	-.753	-.480	-.394	-.304	-.476	-.443	-.565
24	-.651	-.390	-.325	-.166	-.162	-.223	-.345
25	-1.159	-2.075	-2.485	1.094	1.351	-.850	-1.753
26	-.791	.478	.498	.308	*000.000	.326	.021
27	-.146	.673	.592	1.240	.617	.250	.235
28	.009	.569	.546	.864	.780	.400	.303
29	-.105	.371	.614	.548	.440	.480	.363
30	.162	.801	.778	1.209	1.098	.768	.189
31	.246	.812	.819	1.310	1.204	.838	.432
32	.105	.570	.506	.861	.673	.589	.372
33	.114	.235	.435	.499	.400	.403	.136

$\alpha = 65°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-2.005	-7.276	-7.771	-.750	.298	-1.790	-1.674
2	-2.666	-6.883	-7.865	-1.833	-.886	-1.840	-1.304
3	-2.315	-6.414	-7.815	-2.243	-1.411	-2.137	-1.288
4	-2.771	-5.387	-6.641	-2.332	-1.628	-1.558	-1.142
5	-2.781	-4.016	-4.767	-2.311	-1.909	-1.545	-1.398
6	-.851	-1.225	-.875	.006	-.103	-.584	-.583
7	-1.878	-3.170	-3.708	-2.237	-1.596	-.954	-1.295
8	-1.943	-3.454	-3.866	-3.722	-2.885	-1.299	-.970
9	-1.444	-2.322	-3.154	-4.487	-3.928	-1.544	-.939
10	-1.680	-2.563	-2.556	-3.534	-2.954	-.855	-.808
11	-1.210	-1.310	*000.000	-2.085	-2.002	-.593	-.693
12	-1.714	-1.246	-1.265	-1.389	-1.281	-.491	-.531
13	-1.055	-1.070	-1.092	-1.104	-1.012	-.554	-.663
14	-1.073	-1.050	-1.031	-1.016	-.961	-.474	-.478
15	-.667	-.897	.207	.417	.283	.352	.098
16	-.567	-.782	-.160	.011	-.057	.005	-.040
17	-.949	-1.765	-.845	-.848	-.897	-.339	-.381
18	-1.141	-1.287	-1.440	-1.536	-1.386	-.661	-.677
19	-1.173	-1.296	-1.749	-2.095	-1.564	-.534	-.601
20	-.977	-1.103	-1.625	-1.976	-1.735	-.901	-.952
21	-1.109	-1.250	-1.441	-1.529	-1.603	-.627	-.761
22	-.930	-1.040	-1.147	-1.187	-1.182	-.637	-.728
23	-.683	-.529	-.743	-.210	-.349	-.324	-.430
24	-.611	-.565	-.298	-.187	-.190	-.171	-.253
25	-1.345	-4.009	-3.080	1.019	1.276	-1.558	-2.364
26	-.474	.067	.290	.318	*000.000	.224	-.021
27	-.214	.300	.500	1.270	.828	.273	.229
28	.027	.323	.563	.784	.678	.450	.333
29	0.	.282	.583	.458	.424	.485	.360
30	.142	.664	.733	1.137	.974	.713	.163
31	.167	.683	.700	1.224	1.106	.753	.507
32	.154	.473	.457	.685	.538	.516	.357
33	.106	.106	.359	.451	.396	.435	.231

$\alpha = 70°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.436	-1.880	-4.348	-.793	-.108	-1.541	-1.238
2	-1.457	-1.464	-4.013	-1.809	-1.020	-2.137	-1.414
3	-1.447	-1.632	-4.475	-2.179	-1.571	-.867	-.708
4	-1.224	-1.300	-3.446	-2.417	-1.865	-.898	-.772
5	-1.215	-1.445	-2.097	-2.247	-1.923	-1.009	-.928
6	-.250	-.518	-.517	-.002	-.172	-.646	-.643
7	-.802	-1.469	-1.775	-2.136	-1.747	-.680	-.997
8	-.979	-1.270	-1.315	-3.598	-3.314	-.836	-.953
9	-.705	-.792	-.970	-4.136	-4.077	-.489	-.693
10	-.714	-.709	-.788	-3.005	-2.751	-.500	-.583
11	-.624	-.637	*000.000	-1.516	-1.591	-.494	-.564
12	-.634	-.631	-.659	-1.038	-1.050	-.412	-.504
13	-.653	-.660	-.589	-.858	-.811	-.446	-.530
14	-.689	-.701	-.663	-.849	-.742	-.333	-.410
15	-.390	-.860	.179	.289	.200	.336	.099
16	-.432	-.666	-.024	.021	-.058	.038	-.078
17	-.636	-1.326	-.548	-.601	-.729	-.308	-.426
18	-.765	-.741	-.893	-1.352	-1.162	-.502	-.670
19	-.777	-.916	-.960	-1.605	-1.353	-.538	-.660
20	-.705	-.798	-.816	-1.586	-1.467	-.541	-.644
21	-.744	-.795	-.878	-1.385	-1.240	-.442	-.532
22	-.643	-.724	-.696	-1.067	-.842	-.472	-.560
23	-.588	-.602	-.633	-.297	-.362	-.432	-.529
24	-.447	-.516	-.451	-.323	-.300	-.402	-.493
25	-.990	-2.186	-1.986	.985	1.041	-1.363	-1.387
26	-.311	.066	.206	.199	*000.000	.196	-.002
27	-.022	.289	.441	1.044	.601	.377	.238
28	.141	.337	.602	.671	.515	.427	.335
29	.045	.308	.452	.403	.360	.433	.340
30	.104	.532	.638	1.078	.859	.677	.262
31	.155	.519	.496	.949	.783	.508	.379
32	.180	.440	.424	.571	.463	.489	.325
33	.164	.212	.280	.382	.345	.400	.198

Table 30. - Continued.

(d) $C_{T,S} = 0.30$, $q_S = 19.43$

$\alpha = 5°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.983	1.257	.807	.691	1.032	.879	.882
2	.747	1.104	.838	.928	1.360	1.161	1.044
3	.764	1.056	.858	.994	1.448	1.283	1.177
4	.535	.648	.522	.801	1.094	.850	.773
5	.458	.316	.257	.380	.478	.364	.338
6	-.089	-.041	-.031	.021	-.227	-.323	-.286
7	.071	.033	-.253	.140	.294	.199	.195
8	-.618	-1.151	-1.143	-.747	-.748	-.803	-.874
9	-1.320	-1.880	-2.242	-1.659	-1.888	-1.843	-1.743
10	-1.288	-1.753	-2.083	-1.836	-1.708	-1.582	-1.530
11	-1.443	-1.307	.000,000	-1.402	-1.445	-1.402	-1.242
12	-1.704	-.997	-.948	-.846	-.998	-.995	-.938
13	-.546	-.771	-.698	-.513	-.728	-.775	-.724
14	-.856	-.936	-.841	-.628	-.842	-.925	-.709
15	-.343	.151	.244	.305	.019	-.017	-.114
16	-.275	-.198	-.001	.036	-.266	-.268	-.236
17	-.785	-1.439	-.488	-.041	-.304	-.424	-.366
18	-1.060	-1.061	-1.100	-.498	-.731	-.932	-.836
19	-1.567	-1.739	-1.738	-.914	-.958	-1.126	-1.000
20	-1.868	-1.609	-1.505	-.852	-.625	-1.070	-1.062
21	-1.605	-1.236	-1.138	-.498	-.644	-1.006	-.871
22	-1.326	-.583	-.649	-.150	-.339	-.522	-.661
23	-1.095	-.348	-.292	-.194	-.218	-.255	-.270
24	-1.102	-.373	-.245	-.177	-.202	-.346	-.338
25	-.110	.222	-.009	-.027	.093	-.200	-.089
26	-.537	-.105	-.145	-.046	.000,000	-.522	-.114
27	-.380	-.119	-.142	-.048	-.309	-.412	-.371
28	-.037	-.044	-.059	.091	-.194	-.217	-.199
29	.068	.066	.103	-.005	-.100	-.091	-.061
30	-.150	.402	.551	.274	.061	.075	.122
31	.233	.648	.656	.106	0.	.008	.170
32	.484	.906	.900	.257	.216	.279	.599
33	.323	.557	.563	.163	.203	.209	.217

$\alpha = 10°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.773	.929	.626	.605	1.034	1.015	1.012
2	.694	.645	.325	.481	1.028	.982	.879
3	.674	.409	.190	.519	.982	.873	.801
4	.257	.066	-.128	.199	.629	.482	.443
5	.057	-.299	-.429	-.086	.121	-.009	-.034
6	-.077	-.077	-.247	-.005	-.010	-.094	-.149
7	-.078	-.666	-1.176	-.580	-.399	-.294	-.220
8	-1.043	-1.692	-1.792	-1.322	-1.147	-1.121	-1.156
9	-1.816	-2.596	-3.062	-2.632	-2.743	-2.577	-2.450
10	-1.260	-1.980	-2.316	-2.212	-2.206	-2.066	-1.913
11	-1.029	-1.573	.000,000	-1.708	-1.883	-1.674	-1.495
12	-1.881	-1.338	-1.296	-1.379	-1.577	-1.374	-1.266
13	-1.166	-1.283	-1.103	-.990	-1.209	-1.118	-.993
14	-1.057	-.985	-.843	-.734	-.877	-.865	-.729
15	-.540	-.039	.051	.208	.083	.128	-.063
16	-.532	-.454	-.108	-.013	-.181	-.223	-.081
17	-1.438	-2.430	-.964	-.643	-.947	-.815	-.710
18	-1.895	-1.684	-1.541	-1.163	-1.251	-1.428	-1.169
19	-2.649	-2.120	-1.893	-1.536	-1.749	-1.666	-1.412
20	-2.859	-2.200	-1.706	-1.644	-1.497	-1.546	-1.430
21	-2.915	-2.063	-1.607	-1.434	-1.381	-1.272	-1.367
22	-2.725	-1.709	-1.306	-.744	-.620	-.852	-.896
23	-1.596	-.576	-.481	-.418	-.450	-.435	-.586
24	-1.559	-.625	-.245	-.423	-.402	-.468	-.425
25	.607	.618	.461	.344	.422	.301	.292
26	-.246	-.224	-.740	-.187	.000,000	-.201	-.288
27	-.299	-.172	-.025	-.130	-.098	-.191	-.015
28	-.619	-.011	.420	.037	-.078	-.074	.206
29	.158	.395	.281	.230	.160	.206	.204
30	.183	.781	.645	.351	.362	.626	.484
31	.490	.973	.683	.523	.433	.540	.759
32	.573	.806	.622	.587	.596	.661	.906
33	.312	.524	.414	.483	.492	.484	.257

$\alpha = 15°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.831	.890	.356	.709	1.147	1.043	.874
2	.753	.383	-.350	.106	.801	.770	.555
3	.509	.168	-.521	-.065	.560	.388	.373
4	.167	-.196	-.783	-.281	.267	0.	-.136
5	.672	-.560	-.906	-.641	-.313	-.489	-.601
6	.159	-.047	-.250	-.308	-.018	-.025	-.089
7	-.395	-1.074	-1.848	-1.080	-.823	-.829	-.985
8	-1.998	-2.267	-2.476	-2.035	-1.827	-1.818	-1.919
9	-1.908	-3.102	-3.802	-3.328	-3.345	-3.245	-3.206
10	-1.339	-2.227	-2.693	-2.879	-2.804	-2.633	-2.513
11	-1.033	-1.640	.000,000	-2.081	-2.109	-1.849	-1.778
12	-1.727	-1.243	-1.195	-1.479	-1.528	-1.334	-1.211
13	-.421	-1.041	-1.033	-1.112	-1.364	-1.253	-1.207
14	-1.546	-1.270	-1.118	-.976	-1.174	-1.102	-.987
15	-.489	-.102	.161	.352	.481	.381	-.072
16	-.687	-.449	-.011	.029	-.034	-.188	-.130
17	-1.414	-2.344	-.904	-.895	-1.241	-.960	-.636
18	-2.210	-1.551	-1.403	-1.374	-1.517	-1.591	-1.276
19	-3.164	-2.230	-1.838	-1.963	-2.096	-1.901	-1.536
20	-3.688	-2.330	-1.946	-2.162	-2.055	-1.971	-1.879
21	-3.629	-2.140	-1.618	-1.756	-1.526	-1.506	-1.505
22	-3.370	-1.553	-1.131	-1.133	-1.127	-1.177	-1.337
23	-1.708	-.357	-.278	-.350	-.248	-.343	-.725
24	-1.505	-.072	-.127	-.394	-.423	-.394	-.475
25	.696	.933	.751	.635	.744	.684	.748
26	.140	-.355	-.105	-.432	.000,000	.100	-.186
27	.137	.109	.544	.090	.131	.065	.097
28	.500	.776	.494	.487	.159	.225	.425
29	.215	.497	.447	.406	.556	.560	.500
30	.591	1.077	.879	.902	.808	.745	.323
31	.864	1.203	.860	1.018	.860	.984	.999
32	.558	1.043	.721	1.023	.917	.898	.838
33	.517	.715	.445	.574	.587	.513	.251

$\alpha = 20°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.635	.463	-.289	.673	1.275	1.008	.354
2	.522	-.369	-1.422	-.178	.468	.201	.031
3	.348	-.742	-1.742	-.642	.082	-.131	-.574
4	.123	-1.078	-1.856	-.713	-.394	-.720	-.824
5	-.427	-1.332	-1.702	-.959	-.784	-1.111	-1.164
6	.204	.041	-.179	-.085	.078	.028	-.020
7	-.813	-1.684	-2.494	-1.420	-1.064	-1.218	-1.408
8	-1.894	-3.120	-3.326	-2.964	-2.825	-2.925	-3.067
9	-1.831	-3.204	-4.090	-3.742	-3.815	-3.519	-3.466
10	-1.779	-3.014	-3.450	-3.411	-3.590	-3.321	-3.225
11	-.997	-1.727	.000.000	-1.971	-2.316	-2.113	-2.017
12	-1.709	-1.266	-1.142	-1.150	-1.335	-1.282	-1.203
13	-1.244	-1.170	-.993	-.936	-1.197	-1.108	-1.061
14	-2.035	-1.192	-.985	-.961	-1.173	-1.136	-.979
15	-.752	-.212	.398	.617	.660	.399	-.234
16	-1.058	-.665	-.113	.149	-.121	-.240	-.081
17	-1.855	-2.400	-.782	-.609	-.948	-.821	-.595
18	-2.844	-1.823	-1.527	-1.408	-1.746	-1.783	-1.339
19	-3.796	-2.259	-1.817	-2.038	-2.151	-1.933	-1.561
20	-3.756	-2.253	-1.621	-2.074	-2.060	-1.801	-1.657
21	-3.868	-2.208	-1.511	-1.897	-1.854	-1.543	-1.537
22	-3.423	-1.769	-1.133	-1.199	-1.132	-1.143	-1.228
23	-1.707	-.498	-.205	-.241	-.270	-.363	-.741
24	-1.604	-.309	-.216	-.062	-.219	-.261	-.341
25	.876	1.000	.717	1.023	1.248	1.124	.809
26	.150	-.258	.174	.037	.000.000	-.180	-.115
27	.275	.786	.825	.793	.112	.134	.477
28	.743	.847	.821	.963	1.195	.903	.680
29	.409	.588	.617	.705	.657	.540	.516
30	.426	.940	.942	1.146	1.089	1.005	.048
31	.598	1.082	.999	1.417	1.352	1.168	.900
32	.582	.912	.763	1.169	1.126	.943	.972
33	.483	.693	.626	.919	.815	.612	.150

$\alpha = 25°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	.640	-.273	-1.691	.062	.939	.809	-.523
2	.631	-1.479	-2.968	-.982	-.012	-.321	-1.378
3	-.203	-1.693	-2.695	-1.182	-.498	-.779	-1.385
4	-.355	-2.050	-3.351	-1.762	-1.058	-1.269	-1.727
5	-.904	-1.945	-2.678	-1.777	-1.503	-1.654	-1.659
6	.063	-.019	-.307	-.116	-.071	-.083	-.174
7	-1.146	-2.020	-3.257	-2.038	-1.790	-1.702	-1.765
8	-2.110	-3.765	-4.248	-3.583	-3.426	-3.445	-3.397
9	-2.272	-4.070	-5.246	-4.682	-4.899	-4.523	-4.220
10	-1.875	-3.006	-3.785	-3.897	-3.987	-3.479	-3.250
11	-1.421	-2.043	.000.000	-2.298	-2.682	-2.291	-2.032
12	-2.316	-1.348	-1.517	-1.644	-1.800	-1.485	-1.413
13	-1.945	-1.291	-1.247	-1.215	-1.477	-1.223	-1.146
14	-3.209	-1.318	-1.271	-1.313	-1.521	-1.251	-1.044
15	-1.143	-.137	.383	.539	.460	.429	.132
16	-1.489	-.543	-.049	.070	-.072	-.156	-.019
17	-2.762	-2.903	-1.160	-1.069	-1.410	-1.124	-.695
18	-3.993	-2.166	-1.848	-1.832	-2.004	-1.963	-1.389
19	-4.420	-2.551	-2.192	-2.328	-2.546	-2.124	-1.780
20	-4.314	-2.576	-2.019	-2.339	-2.290	-1.958	-1.732
21	-3.988	-2.373	-1.819	-1.922	-1.967	-1.720	-1.606
22	-3.351	-1.797	-1.257	-1.318	-1.241	-1.319	-1.250
23	-1.936	-.562	-.509	-.416	-.251	-.260	-.500
24	-1.912	-.444	-.387	-.297	-.488	-.258	-.283
25	.917	.963	.324	1.164	1.314	1.255	.521
26	-.021	.247	.219	.080	.000.000	-.317	.018
27	.904	1.153	.918	1.198	.635	.895	.810
28	.468	.765	.663	.893	.978	.831	.574
29	.084	.616	.531	.655	.702	.676	.640
30	.116	1.005	.777	1.190	1.157	1.187	.231
31	.659	1.075	.730	1.197	1.208	1.177	1.000
32	.582	1.115	.830	1.194	1.177	1.048	1.090
33	.424	.771	.601	.811	.810	.674	.295

Table 30.- Concluded.

(d) $C_{T,s} = 0.30$, $q_s = 19.43$

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.504	-1.373	-2.647	-.155	.581	.479	-1.795
2	-.501	-2.791	-4.112	-1.610	-.640	-.701	-2.063
3	-.640	-3.117	-4.458	-1.982	-1.309	-1.179	-2.159
4	-.836	-2.410	-4.035	-2.145	-1.593	-1.647	-2.270
5	-1.419	-2.681	-3.263	-2.159	-1.996	-2.044	-2.366
6	.405	-.053	-.243	.042	.065	.027	-.363
7	-1.384	-2.856	-3.944	-2.482	-2.091	-1.964	-2.526
8	-2.623	-4.482	-4.764	-4.039	-3.794	-3.495	-3.747
9	-2.737	-4.484	-5.693	-5.155	-5.168	-4.517	-4.427
10	-1.981	-3.370	-3.870	-3.982	-3.893	-3.344	-3.256
11	-1.449	-2.373	∘000.000	-2.452	-2.772	-2.255	-2.240
12	-2.133	-1.543	-1.352	-1.329	-1.556	-1.237	-1.332
13	-2.726	-1.759	-1.444	-1.341	-1.585	-1.080	-1.090
14	-3.629	-1.742	-1.342	-1.349	-1.447	-1.153	-1.035
15	-1.222	-.391	.426	.537	.401	.417	-.045
16	-1.961	-.617	-.053	.206	.028	-.040	-.202
17	-3.013	-3.304	-1.007	-.994	-1.284	-1.001	-.945
18	-3.962	-2.426	-1.905	-1.909	-2.115	-2.067	-1.558
19	-4.351	-2.939	-2.262	-2.504	-2.737	-2.274	-1.860
20	-3.975	-3.071	-2.229	-2.540	-2.484	-2.231	-2.038
21	-3.804	-2.811	-1.905	-1.969	-2.176	-2.031	-1.955
22	-2.942	-2.180	-1.386	-1.385	-1.172	-1.279	-1.295
23	-1.942	-.994	-.588	-.404	-.218	-.381	-1.012
24	-1.886	-.661	-.244	-.039	-.145	-.186	-.594
25	.984	.288	-.138	1.341	1.602	1.459	.019
26	.179	.489	.448	.277	∘000.000	-.235	-.137
27	.823	.784	.937	1.377	1.367	1.056	.596
28	.762	.736	.860	1.187	1.177	.941	.600
29	.144	.455	.745	.871	.773	.759	.579
30	.246	1.094	1.033	1.523	1.446	1.387	.010
31	.294	1.067	.925	1.474	1.463	1.513	.756
32	.459	.762	.862	1.153	1.114	1.026	.884
33	.341	.599	.593	.821	.726	.612	.166

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.335	-2.453	-4.091	-.405	.138	.172	-1.840
2	-1.087	-3.871	-5.586	-2.117	-1.226	-1.241	-2.874
3	-1.325	-4.273	-5.865	-2.529	-1.713	-1.527	-2.654
4	-1.574	-3.832	-5.039	-2.458	-2.227	-1.963	-2.539
5	-2.440	-3.298	-4.172	-2.401	-2.313	-2.061	-2.050
6	.105	-.113	-.369	-.017	-.011	-.054	-.388
7	-1.698	-2.699	-3.778	-2.410	-1.941	-1.741	-2.119
8	-3.134	-5.032	-5.393	-4.439	-4.213	-3.441	-3.555
9	-3.306	-5.026	-5.743	-5.383	-5.424	-4.243	-3.870
10	-2.354	-3.531	-3.847	-4.014	-3.810	-3.045	-2.596
11	-1.819	-2.501	∘000.000	-2.528	-2.880	-1.894	-1.828
12	-2.515	-1.607	-1.551	-1.496	-1.757	-1.238	-1.041
13	-2.998	-1.690	-1.469	-1.305	-1.403	-1.042	-1.058
14	-3.297	-1.651	-1.260	-1.128	-1.366	-1.018	-.872
15	-1.202	-.364	.397	.635	.499	.431	.033
16	-1.686	-.856	-.050	.090	-.167	-.043	-.134
17	-2.825	-3.369	-1.174	-1.041	-1.229	-.835	-.489
18	-3.958	-2.473	-2.044	-2.055	-2.166	-1.761	-1.416
19	-4.102	-2.982	-2.357	-2.482	-2.891	-2.061	-1.612
20	-3.837	-3.386	-2.231	-2.609	-2.822	-2.588	-1.993
21	-3.291	-2.937	-1.844	-1.992	-2.383	-2.136	-1.680
22	-3.222	-2.212	-1.549	-1.729	-1.846	-1.733	-1.491
23	-2.292	-.949	-.589	-.530	-.458	-.466	-1.122
24	-1.713	-.454	-.393	-.148	-.442	-.346	-.459
25	.589	-.050	-1.287	1.157	1.405	1.276	-.413
26	-.041	.784	.593	.318	∘000.000	-.100	-.097
27	.677	.946	.719	1.352	1.370	.973	.563
28	.494	.828	.894	1.150	.923	.836	.637
29	.085	.801	.742	.935	.858	.696	.626
30	.019	1.101	.902	1.447	1.228	1.372	.205
31	.232	1.079	.890	1.371	1.306	1.380	.966
32	.189	1.008	.845	1.109	.952	1.007	.793
33	.136	.589	.562	.926	.843	.590	.378

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.887	-4.291	-6.338	-1.586	-.501	-.518	-3.271
2	-1.576	-5.164	-7.217	-2.978	-1.887	-1.831	-3.427
3	-1.717	-5.345	-7.077	-3.380	-2.418	-2.495	-3.897
4	-1.916	-4.663	-6.098	-3.506	-2.520	-2.397	-3.061
5	-2.767	-3.713	-4.696	-3.030	-2.514	-2.564	-2.387
6	.127	-.272	-.547	-.037	-.089	-.034	-.337
7	-2.365	-3.595	-4.742	-3.126	-2.375	-2.026	-2.248
8	-3.460	-5.243	-5.597	-4.843	-4.368	-3.296	-3.245
9	-3.552	-5.458	-6.393	-6.154	-5.656	-4.474	-3.882
10	-2.533	-3.799	-4.373	-4.435	-4.204	-3.229	-2.683
11	-1.913	-2.373	∘000.000	-2.556	-2.600	-1.721	-1.513
12	-2.408	-1.545	-1.605	-1.680	-1.724	-1.162	-.968
13	-2.841	-1.618	-1.411	-1.368	-1.281	-.880	-.772
14	-2.880	-1.665	-1.394	-1.418	-1.367	-.955	-.809
15	-1.285	-.284	.378	.478	.518	.456	.214
16	-1.688	-.587	-.027	.013	.067	.057	.009
17	-2.979	-3.142	-1.246	-1.322	-1.249	-.802	-.695
18	-3.212	-2.266	-2.033	-2.201	-2.316	-1.706	-1.256
19	-3.412	-3.139	-2.746	-2.709	-2.898	-2.167	-1.412
20	-3.022	-2.909	-2.215	-2.281	-2.640	-1.855	-1.465
21	-3.211	-2.720	-2.097	-2.194	-2.889	-1.812	-1.693
22	-2.320	-1.835	-1.327	-1.664	-1.712	-1.612	-1.390
23	-1.887	-.673	-.524	-.509	-.566	-.491	-.867
24	-1.591	-.548	-.343	-.243	-.105	-.217	-.567
25	.669	-.938	-2.855	.696	1.395	.904	-1.356
26	-.005	.886	.555	.648	∘000.000	.475	-.029
27	.699	1.120	.911	1.457	1.563	1.185	.837
28	.288	.886	.804	.951	1.126	.712	.632
29	.040	.819	.844	.722	.823	.813	.733
30	.054	1.213	.972	1.204	1.377	1.261	-.016
31	.295	1.242	.916	1.328	1.342	1.346	.850
32	.255	.938	.807	1.011	1.117	.890	.859
33	.302	.527	.783	.778	.640	.644	.324

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-1.485	-5.134	-7.326	-2.184	-.973	-2.468	-4.056
2	-2.071	-6.814	-8.527	-3.911	-2.485	-3.225	-4.535
3	-2.346	-7.106	-8.819	-4.487	-3.445	-3.603	-4.484
4	-2.313	-6.561	-8.439	-4.180	-3.072	-3.397	-3.697
5	-3.227	-4.555	-4.962	-3.520	-2.918	-3.007	-2.722
6	.183	-.488	-1.002	.038	.015	-.213	-.700
7	-2.195	-3.744	-4.885	-3.169	-2.462	-1.876	-2.165
8	-3.810	-5.889	-5.460	-5.138	-4.674	-3.455	-3.424
9	-3.214	-5.369	-6.004	-5.770	-5.738	-4.114	-3.482
10	-2.288	-3.447	-3.401	-3.922	-3.579	-2.475	-1.969
11	-1.499	-2.343	∘000.000	-2.421	-2.544	-1.655	-1.376
12	-2.288	-1.702	-1.674	-1.473	-1.453	-1.030	-1.020
13	-2.156	-1.697	-1.520	-1.211	-1.222	-.895	-.886
14	-2.145	-1.567	-1.348	-1.200	-1.230	-.802	-.791
15	-.796	-.384	.465	.581	.490	.535	.316
16	-1.220	-.516	-.121	.080	-.012	-.054	-.002
17	-1.962	-3.291	-1.361	-1.152	-1.261	-.735	-.646
18	-2.211	-2.100	-2.011	-1.772	-1.870	-1.596	-1.046
19	-3.015	-2.856	-2.513	-2.263	-2.778	-1.902	-1.395
20	-2.541	-2.943	-2.532	-2.527	-2.898	-2.182	-1.659
21	-1.840	-2.067	-1.782	-1.813	-2.229	-1.352	-1.256
22	-1.981	-1.714	-1.506	-1.470	-1.962	-1.460	-1.433
23	-1.283	-.777	-.639	-.477	-.424	-.563	-.818
24	-1.312	-.486	-.433	-.192	-.129	-.369	-.506
25	.607	-1.727	-4.639	.451	1.151	-.792	-1.893
26	-.035	.688	.541	.929	∘000.000	.565	.032
27	.823	1.168	.770	1.361	1.442	.766	.681
28	.478	.972	.699	1.021	1.142	.738	.707
29	.058	.679	.818	.870	.892	.760	.729
30	.310	1.118	.860	1.413	1.378	.935	.431
31	.369	1.049	.794	1.244	1.260	.976	.866
32	.343	.889	.829	1.037	.982	.743	.895
33	.344	.459	.618	.774	.725	.621	.498

Table 31.- Pressure coefficients for wing with propeller rotation up at tip, full-span slat and fences, $\delta_f = 60°$.

(a) $C_{T,s} = 0.90$, $q_s = 20.20$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.134	1.041	.838	-1.108	.131	.358	.341
2	.944	1.017	.775	-.177	.843	.933	.322
3	.875	.897	.718	.136	1.049	1.016	.415
4	.627	.632	.586	.610	1.182	1.029	.321
5	.317	.267	.419	.866	1.029	.724	.200
6	-.024	-.040	-.045	-.183	-.140	.206	.004
7	-.108	.201	-.039	.831	.816	.561	.351
8	-.542	-.842	-.776	.487	.271	-.024	-.141
9	-.972	-1.456	-1.649	-.115	-.510	-.776	-.579
10	-.624	-1.158	-1.369	-.385	-.595	-.676	-.429
11	-.460	-.947	.000.000	-.581	-.737	-.657	-.382
12	-1.084	-.662	-.731	-.494	-.586	-.493	-.310
13	-.416	-.625	-.668	-.405	-.438	-.441	-.223
14	-.503	-.569	-.690	-.455	-.372	-.398	-.226
15	-.361	-1.421	-.060	-.156	-.045	-.140	-.016
16	-1.138	-1.242	-1.333	-.684	-.409	-.392	-.256
17	-1.584	-3.215	-2.036	-1.153	-.751	-.650	-.384
18	-1.697	-2.133	-2.224	-1.395	-.712	-.628	-.429
19	-1.702	-1.570	-2.310	-1.357	-.277	-.534	-.441
20	-1.648	-1.517	-1.114	-.708	-.212	-.291	-.178
21	-1.371	-.348	-.726	-.298	-.180	-.258	-.078
22	-.989	-.352	-.300	-.230	-.149	-.295	-.129
23	-.588	-.371	-.291	-.247	-.158	-.288	-.163
24	-.441	-.340	-.286	-.232	-.166	-.262	-.194
25	.340	.457	.386	-.937	-.463	-.358	.034
26	-.300	.018	0.	-.665	.000.000	-.583	-.017
27	-.109	-.018	.042	-.237	-.036	-.217	-.069
28	.107	.023	.608	-.164	-.027	-.127	.029
29	.133	.563	.490	.023	-.141	-.126	.056
30	-.013	.681	.513	-.275	-.008	-.086	.013
31	.496	.975	.747	.090	.012	-.090	-.035
32	.851	.966	.850	-.257	.075	-.059	.080
33	.776	.775	.744	.043	.107	-.219	-.006

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.053	1.073	.887	-.536	.353	.530	.312
2	.899	.907	.685	.070	.962	1.037	.130
3	.805	.774	.552	.323	1.058	1.109	.271
4	.471	.502	.465	.697	1.165	1.032	.333
5	.236	.146	.249	.812	.935	.703	.139
6	.050	-.010	.131	-.174	-.125	.246	-.005
7	.064	.133	-.273	.785	.752	.607	.251
8	-.648	-1.021	-.844	.361	.086	-.046	-.227
9	-1.022	-1.588	-1.900	-.305	-.734	-.841	-.628
10	-.667	-1.213	-1.396	-.478	-.671	-.686	-.470
11	-.473	-.995	.000.000	-.628	-.802	-.645	-.390
12	-1.122	-.660	-.737	-.500	-.633	-.441	-.327
13	-.431	-.585	-.660	-.419	-.441	-.372	-.226
14	-.555	-.573	-.664	-.421	-.418	-.310	-.203
15	-.363	-1.417	-.151	-.016	-.069	-.021	-.020
16	-1.258	-1.324	-1.409	-.668	-.490	-.396	-.250
17	-1.789	-2.501	-2.128	-1.145	-.837	-.531	-.407
18	-2.052	-1.654	-2.296	-1.221	-.869	-.623	-.441
19	-2.098	-1.329	-2.328	-1.170	-.951	-.593	-.284
20	-1.804	-.509	-1.739	-.552	-.207	-.166	-.164
21	-1.605	-.407	-.977	-.287	-.169	-.228	-.176
22	-1.244	-.400	-.515	-.192	-.188	-.204	-.104
23	-.656	-.390	-.271	-.222	-.151	-.157	-.087
24	-.472	-.307	-.334	-.166	-.201	-.228	-.123
25	.437	.550	.638	-.744	-.290	-.229	-.059
26	-.194	0.	-.157	-.669	.000.000	-.462	-.017
27	-.055	-.060	.342	-.207	-.088	-.138	.007
28	.29	.223	.660	-.182	-.023	-.084	.062
29	.158	.592	.521	.096	-.092	-.039	.072
30	.162	.799	.600	.157	.018	.020	-.028
31	.534	1.114	.969	-.015	-.044	.011	-.049
32	.877	.992	.942	.173	-.007	-.016	.017
33	.691	.734	.721	.573	-.047	-.132	-.066

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.199	1.081	.896	-.357	.594	.617	.176
2	.856	.822	.387	.318	1.071	1.170	.266
3	.700	.604	.314	.529	1.151	1.103	.094
4	.462	.315	.116	.801	1.197	1.018	.127
5	.207	-.006	.125	.838	.903	.640	.165
6	.054	.049	.242	-.156	-.054	.242	.044
7	.039	-.102	-.465	.693	.752	.608	.357
8	-.709	-1.134	-1.080	.250	.040	-.137	-.227
9	-1.121	-1.761	-2.104	-.488	-.854	-.940	-.689
10	-.699	-1.307	-1.475	-.553	-.733	-.797	-.554
11	-.502	-1.033	.000.000	-.658	-.818	-.623	-.423
12	-1.149	-.690	-.862	-.569	-.611	-.440	-.324
13	-.566	-.688	-.729	-.519	-.467	-.411	-.301
14	-.648	-.621	-.736	-.506	-.438	-.315	-.257
15	-.378	-1.429	-.138	.161	-.002	-.018	-.042
16	-1.495	-1.387	-1.563	-.693	-.541	-.558	-.296
17	-2.066	-2.784	-2.310	-1.193	-.781	-.625	-.472
18	-2.394	-1.690	-2.518	-1.207	-.842	-.798	-.568
19	-2.483	-1.655	-2.472	-1.350	-.571	-.418	-.332
20	-2.082	-.648	-2.060	-.670	-.234	-.201	-.107
21	-1.831	-.438	-1.342	-.281	-.184	-.195	-.113
22	-1.206	-.438	-.706	-.282	-.137	-.149	-.075
23	-.643	-.497	-.285	-.254	-.119	-.195	-.182
24	-.547	-.340	-.343	-.197	-.102	-.191	-.148
25	.570	.635	.700	-.640	-.094	-.141	-.018
26	-.025	-.007	-.084	-.645	.000.000	-.302	-.034
27	-.002	-.047	.556	-.237	-.037	-.070	-.013
28	.153	.551	.691	-.128	-.007	-.044	.084
29	.201	.591	.551	.137	-.063	.003	.068
30	.295	.856	.679	.160	.104	.070	.034
31	.667	1.010	1.010	.150	.048	.011	.124
32	.790	.981	1.003	.460	.223	.111	.157
33	.636	.759	.847	.662	.348	.101	.339

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.060	.999	.314	.044	.727	.832	.190
2	.730	.604	-.040	.445	1.113	1.167	.192
3	.517	.381	-.177	.621	1.138	1.068	.077
4	.276	.068	-.286	.758	1.118	.950	-.007
5	.045	-.164	-.334	.862	.832	.610	.039
6	.084	.118	.083	.149	-.003	.258	-.091
7	-.101	-.461	-.934	.758	.701	.642	.091
8	-.832	-1.413	-1.424	.172	-.102	-.194	-.332
9	-1.227	-1.876	-2.243	-.554	-.967	-1.056	-.722
10	-.814	-1.468	-1.738	-.712	-.885	-.846	-.525
11	-.549	-1.109	.000.000	-.743	-.894	-.706	-.547
12	-1.199	-.741	-.875	-.575	-.638	-.469	-.327
13	-.621	-.710	-.841	-.453	-.486	-.375	-.396
14	-.769	-.746	-.913	-.488	-.517	-.359	-.339
15	-.538	-1.370	-.305	.153	-.024	.015	-.137
16	-1.741	-1.457	-1.760	-.788	-.762	-.472	-.420
17	-2.538	-3.140	-2.524	-1.226	-1.159	-.934	-.683
18	-2.737	-2.159	-2.515	-1.414	-.911	-1.109	-.930
19	-2.646	-1.839	-2.733	-1.080	-.681	-.792	-.720
20	-2.523	-.820	-2.187	-.492	-.336	-.407	-.333
21	-1.961	-.598	-1.659	-.314	-.170	-.253	-.228
22	-1.208	-.595	-.562	-.290	-.164	-.245	-.178
23	-.718	-.527	-.312	-.271	-.148	-.212	-.188
24	-.672	-.401	-.391	-.204	-.143	-.204	-.192
25	.590	.734	.662	-.447	-.026	-.074	-.148
26	.029	-.120	.009	-.511	.000.000	-.156	-.038
27	.029	-.028	.665	-.155	.007	.008	.030
28	.129	.735	.532	-.100	-.036	.001	-.030
29	.208	.562	.500	.278	.007	.017	.134
30	.216	.766	.628	.305	.219	.132	.092
31	.601	.940	.817	.231	.111	.132	.058
32	.555	.890	.842	.677	.185	.104	.081
33	.502	.653	.645	.750	.497	.282	.235

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.078	.960	.187	.117	.849	.906	.184
2	.638	.402	-.418	.664	1.143	1.161	.124
3	.444	.160	-.540	.702	1.195	1.198	.047
4	.153	-.154	-.658	.956	1.071	.970	-.016
5	-.035	-.417	-.578	.850	.802	.552	-.092
6	.061	.197	.098	-.098	-.068	.339	.020
7	-.163	-.619	-1.070	.601	.569	.574	.164
8	-.992	-1.669	-1.842	.121	-.252	-.270	-.244
9	-1.403	-2.223	-2.745	-.982	-1.254	-1.233	-.845
10	-.888	-1.599	-1.852	-.762	-1.027	-.897	-.541
11	-.842	-1.192	.000.000	-.861	-.991	-.680	-.461
12	-1.300	-.859	-.932	-.701	-.762	-.481	-.373
13	-.825	-.868	-.885	-.548	-.635	-.422	-.307
14	-1.099	-.901	-1.003	-.586	-.679	-.409	-.297
15	-.763	-1.493	-.276	.054	-.023	.017	.016
16	-2.212	-1.649	-1.928	-1.083	-1.141	-.860	-.501
17	-3.132	-4.060	-2.818	-1.566	-1.568	-1.212	-.814
18	-3.268	-2.711	-3.170	-1.836	-1.770	-1.376	-.888
19	-3.564	-2.834	-3.367	-1.960	-1.586	-1.650	-1.088
20	-2.833	-2.228	-2.339	-.592	-.700	-.647	-.650
21	-2.222	-1.122	-1.257	-.370	-.287	-.345	-.366
22	-1.360	-.995	-1.067	-.244	-.233	-.268	-.260
23	-.799	-.599	-.340	-.195	-.173	-.182	-.175
24	-.656	-.521	-.340	-.185	-.196	-.219	-.260
25	.734	.874	.807	-.406	-.085	.009	.012
26	.036	-.229	.201	-.358	.000.000	-.069	.042
27	.140	.122	.742	-.094	-.049	.052	.053
28	.157	.740	.673	-.058	-.028	.015	.079
29	.186	.560	.560	.202	.051	.106	.103
30	.136	.781	.662	.353	.233	.268	.087
31	.525	.952	.931	.476	.258	.284	.142
32	.630	.870	.892	1.053	.505	.309	.110
33	.500	.670	.747	.996	.613	.356	.178

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.939	.795	-.010	.266	.877	1.008	-.019
2	.476	.242	-.719	.657	1.162	1.254	-.076
3	.244	-.032	-.796	.661	1.120	1.071	-.015
4	.27	-.346	-.887	.736	.969	.861	-.123
5	-.186	-.536	-.745	.752	.655	.453	-.185
6	.033	.252	.116	-.171	-.025	.348	-.051
7	-.348	-.828	-1.357	.499	.529	.556	.176
8	-1.168	-1.873	-1.824	-.056	-.337	-.346	-.290
9	-1.535	-2.385	-2.745	-.966	-1.393	-1.223	-.848
10	-1.043	-1.743	-1.952	-1.028	-1.158	-.897	-.554
11	-.947	-1.308	.000.000	-1.022	-1.119	-.630	-.404
12	-1.296	-.872	-.847	-.759	-.755	-.444	-.361
13	-1.054	-.962	-.873	-.827	-.663	-.371	-.262
14	-1.338	-1.049	-.929	-.699	-.696	-.417	-.238
15	-.884	-1.429	-.250	-.032	-.034	.081	-.033
16	-2.687	-1.945	-2.008	-1.374	-1.366	-1.112	-.569
17	-3.274	-4.501	-2.923	-1.988	-1.760	-1.447	-.854
18	-3.364	-3.041	-3.002	-2.076	-2.062	-1.898	-1.133
19	-3.436	-3.099	-2.872	-1.978	-1.751	-1.775	-1.005
20	-3.046	-2.871	-2.058	-1.290	-.982	-1.377	-.942
21	-2.367	-1.819	-1.797	-.599	-.405	-.659	-.667
22	-1.507	-1.186	-.685	-.297	-.222	-.365	-.468
23	-.985	-.657	-.250	-.277	-.209	-.399	-.273
24	-.932	-.696	-.255	-.198	-.286	-.288	-.288
25	.761	.932	.778	-.287	-.076	-.138	-.130
26	.047	-.218	.233	-.488	.000.000	-.133	-.019
27	-.040	.300	.882	-.169	-.083	-.025	-.017
28	.383	.725	.689	-.019	-.008	-.006	.102
29	.104	.596	.577	.498	.159	.157	.190
30	.055	.762	.694	.539	.472	.446	.104
31	.427	.928	.903	.701	.452	.363	.210
32	.530	.888	.899	.877	.739	.561	.153
33	.478	.666	.730	.958	.762	.543	.248

Table 31. - Continued.

(a) $C_{T,S} = 0.90$, $q_S = 20.20$

$\alpha = 35°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.450	.484	-.177	.458	.943	1.004	-.248
2	.404	.029	-.992	.739	1.182	1.273	-.491
3	.180	-.265	-1.143	.791	1.046	1.091	-.347
4	-.126	-.533	-1.211	.780	.902	.816	-.309
5	-.284	-.784	-.996	.666	.567	.456	-.393
6	.074	.264	.047	-.226	-.103	.255	-.021
7	-.489	-1.010	-1.622	.481	.476	.668	.030
H	-1.340	-2.150	-2.140	-.240	-.533	-.379	-.453
9	-1.621	-2.495	-2.947	-1.112	-1.569	-1.205	-.737
10	-1.103	-1.819	-1.961	-1.157	-1.257	-.835	-.509
11	-.873	-1.304	.000.000	-1.017	-1.161	-.642	-.430
12	-1.197	-.873	-.749	-.721	-.771	-.361	-.307
13	-1.150	-1.059	-.889	-.695	-.758	-.328	-.338
14	-1.431	-1.105	-.963	-.695	-.780	-.477	-.349
15	-1.001	-1.386	-.288	-.052	-.099	.129	-.083
16	-2.555	-2.048	-1.883	-1.484	-1.502	-1.178	-.669
17	-3.517	-5.247	-2.535	-1.992	-2.129	-1.552	-.819
18	-3.432	-3.548	-2.809	-2.418	-2.294	-1.882	-1.174
19	-3.537	-3.511	-2.543	-1.966	-2.131	-1.698	-.921
20	-3.109	-3.027	-1.893	-1.193	-1.194	-1.377	-.913
21	-2.458	-2.443	-1.447	-.564	-.394	-.875	-.738
22	-1.445	-1.433	-1.031	-.423	-.323	-.561	-.611
23	-1.093	-.704	-.253	-.274	-.243	-.258	-.271
24	-1.039	-.003	-.072	-.256	-.227	-.255	-.210
25	.793	.470	.740	-.079	.123	.081	-.129
26	-.007	-.284	.287	-.439	.000.000	-.121	-.081
27	-.090	.538	.978	-.147	-.078	-.005	-.005
28	.489	.691	.795	.129	-.143	-.085	-.021
29	.062	.632	.607	.607	.307	.236	.151
30	-.007	.771	.703	.656	.474	.535	.139
31	.341	.911	.842	.826	.596	.599	.048
32	.611	.883	.906	1.061	.928	.656	.062
33	.359	.650	.768	.784	.947	.535	.082

$\alpha = 40°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.745	.504	-.447	.637	.997	.938	-.251
2	.127	-.221	-1.232	.852	1.133	1.049	-.388
3	-.082	-.442	-1.278	.874	1.025	.927	-.430
4	.025	.265	.050	-.231	-.144	.202	0.
5	-.474	-.905	-1.221	.561	.466	.297	-.396
6	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000	.000.000
7	-.593	-1.074	-1.633	.368	.423	.522	-.034
H	-1.648	-2.208	-2.212	-.300	-.571	-.451	-.296
9	-1.735	-2.526	-2.876	-1.315	-1.624	-1.165	-.592
10	-1.198	-1.838	-1.901	-1.220	-1.314	-.894	-.399
11	-.887	-1.293	.000.000	-1.119	-1.161	-.672	-.417
12	-1.110	-.898	-.774	-.754	-.801	-.485	-.337
13	-1.213	-.994	-.752	-.670	-.802	-.510	-.299
14	-1.539	-1.161	-.945	-.729	-.808	-.575	-.352
15	-1.179	-1.393	-.293	-.006	-.098	.005	-.040
16	-2.633	-2.114	-1.739	-1.430	-1.726	-1.216	-.545
17	-3.498	-5.066	-2.147	-2.071	-2.437	-1.613	-.812
18	-3.441	-3.225	-2.195	-2.325	-2.647	-2.048	-.977
19	-3.575	-3.539	-2.177	-2.396	-2.770	-2.096	-.975
20	-2.543	-2.888	-1.491	-1.259	-1.297	-1.671	-.948
21	-2.262	-2.262	-1.341	-.702	-.683	-1.179	-.640
22	-1.738	-1.476	-.887	-.349	-.397	-.751	-.615
23	-1.230	-.596	-.303	-.267	-.330	-.477	-.539
24	-1.102	-.129	-.248	-.250	-.342	-.162	-.180
25	.762	.947	.712	.165	.209	-.056	-.304
26	-.172	-.422	.214	-.410	.000.000	-.146	-.001
27	-.047	.787	.971	-.125	-.183	-.092	.002
28	.455	.671	.734	.295	-.105	-.136	-.044
29	-.030	.537	.606	.663	.369	.174	.135
30	-.196	.745	.666	.784	.618	.592	.090
31	.283	.875	.947	.826	.738	.549	.073
32	.415	.861	.829	1.013	1.052	.545	.170
33	.414	.617	.748	.830	.878	.474	.001

$\alpha = 45°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.402	.422	-.519	.877	1.106	.978	-.456
2	-.080	-.421	-1.442	.912	1.201	1.200	-.473
3	-.277	-.696	-1.526	.939	1.091	1.064	-.446
4	-.422	-.923	-1.624	.718	.787	.691	-.613
5	-.443	-1.043	-1.393	.442	.381	.342	-.398
6	.024	.152	.062	-.249	-.135	.149	-.016
7	-.663	-1.215	-1.822	.287	.397	.524	-.123
H	-1.743	-2.423	-2.396	-.590	-.721	-.424	-.412
9	-1.975	-2.841	-3.195	-1.600	-1.898	-1.261	-.651
10	-1.261	-2.034	-2.016	-1.493	-1.484	-.895	-.474
11	-.944	-1.378	.000.000	-1.131	-1.254	-.623	-.440
12	-1.134	-.994	-.737	-.853	-.839	-.543	-.337
13	-1.443	-1.042	-.785	-.677	-.726	-.446	-.400
14	-1.371	-1.098	-.869	-.746	-.767	-.388	-.243
15	-1.120	-1.379	-.210	-.032	-.144	.119	-.146
16	-2.347	-2.293	-1.753	-1.659	-1.965	-1.337	-.664
17	-3.101	-5.132	-2.173	-2.178	-2.567	-1.527	-.950
18	-3.433	-3.524	-2.134	-2.429	-2.873	-1.851	-.888
19	-3.339	-3.511	-1.944	-2.388	-2.590	-1.753	-.977
20	-2.670	-2.889	-1.566	-1.812	-1.920	-1.808	-1.087
21	-2.214	-2.198	-1.205	-.726	-.884	-1.124	-.719
22	-1.671	-1.584	-.890	-.395	-.487	-.799	-.728
23	-1.171	-.497	-.347	-.293	-.440	-.349	-.524
24	-1.032	-.174	-.331	-.319	-.457	-.098	-.354
25	.805	1.005	.754	.254	.283	.057	-.196
26	-.264	-.321	.242	-.389	.000.000	-.103	-.064
27	.031	.731	.934	-.158	-.139	-.158	-.040
28	.403	.635	.727	.349	.154	-.055	-.050
29	-.046	.554	.675	.661	.467	.186	.116
30	-.120	.720	.713	.715	.606	.631	-.015
31	.380	.925	.943	.982	.925	.749	-.022
32	.415	.901	.941	1.062	1.123	.770	-.020
33	.288	.604	.692	.803	.883	.458	-.125

$\alpha = 50°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.379	.337	-.612	.982	1.106	.892	-.331
2	-.410	-.518	-1.548	.903	1.153	.971	-.595
3	-.604	-.866	-1.748	.924	1.066	.804	-.533
4	-.741	-1.122	-1.773	.710	.747	.525	-.595
5	-.902	-1.168	-1.409	.492	.363	.229	-.550
6	-.444	-.124	-.044	-.242	-.118	.101	-.112
7	-.866	-1.411	-1.990	.271	.392	.421	-.101
H	-2.070	-2.791	-2.661	-.752	-.792	-.366	-.308
9	-2.338	-2.916	-3.105	-1.732	-1.904	-1.116	-.674
10	-1.435	-2.151	-2.044	-1.598	-1.547	-.933	-.429
11	-1.137	-1.530	.000.000	-1.261	-1.286	-.750	-.429
12	-1.163	-1.070	-.868	-.898	-.857	-.658	-.308
13	-1.393	-1.063	-.767	-.724	-.675	-.448	-.287
14	-1.540	-1.183	-.884	-.804	-.734	-.520	-.172
15	-1.051	-1.276	-.223	-.098	-.135	.002	-.158
16	-2.382	-2.354	-1.748	-1.766	-1.939	-1.200	-.551
17	-3.324	-5.138	-2.144	-2.466	-2.936	-1.649	-.820
18	-3.115	-3.345	-2.191	-2.542	-2.839	-1.891	-.908
19	-2.465	-3.427	-2.098	-3.060	-3.024	-1.648	-1.028
20	-2.232	-2.750	-1.646	-2.139	-2.150	-1.500	-.896
21	-2.282	-2.246	-1.343	-1.239	-1.837	-1.283	-.718
22	-1.708	-1.331	-.892	-.394	-.895	-.929	-.619
23	-1.244	-.517	-.383	-.431	-.378	-.632	-.504
24	-.974	-.242	-.296	-.382	-.324	-.205	-.355
25	.709	.959	.693	.354	.333	.044	-.241
26	-.447	-.471	.196	-.327	.000.000	-.180	-.065
27	.170	.717	.882	-.141	-.133	-.184	-.074
28	.147	.639	.690	.323	-.158	-.182	.052
29	-.108	.479	.691	.627	.445	.026	.165
30	-.231	.698	.757	.744	.623	.526	.114
31	.234	.888	.916	1.023	.892	.513	.043
32	.398	.867	.825	1.069	1.040	.583	-.036
33	.288	.546	.620	.845	.888	.354	.028

$\alpha = 55°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.179	.198	-.715	.934	1.129	.927	-.487
2	-.715	-.686	-1.690	1.019	1.169	.970	-.626
3	-.912	-1.025	-1.746	.921	1.026	.802	-.673
4	-.964	-1.211	-1.862	.624	.762	.685	-.500
5	-1.079	-1.254	-1.594	.392	.399	.119	-.432
6	-.161	.068	-.032	-.267	-.167	.078	-.010
7	-1.808	-1.470	-1.948	.261	.428	.533	-.193
H	-2.880	-2.643	-2.446	-.756	-.715	-.198	-.294
9	-2.255	-3.049	-3.170	-1.841	-1.850	-.880	-.467
10	-1.474	-2.225	-2.057	-1.633	-1.464	-.735	-.340
11	-1.142	-1.557	.000.000	-1.265	-1.140	-.487	-.237
12	-1.118	-1.043	-.877	-.877	-.776	-.343	-.330
13	-1.521	-1.129	-.861	-.720	-.595	-.225	-.264
14	-1.718	-1.212	-.967	-.909	-.744	-.392	-.292
15	-1.099	-1.271	-.307	-.108	-.040	.148	-.213
16	-2.200	-2.145	-1.732	-2.072	-1.714	-1.110	-.606
17	-3.388	-4.771	-2.204	-2.610	-2.140	-1.109	-.791
18	-3.524	-3.236	-2.408	-3.280	-2.592	-1.748	-1.047
19	-3.126	-3.216	-2.252	-3.252	-2.293	-1.304	-.891
20	-2.644	-2.771	-1.927	-2.457	-2.126	-1.523	-1.082
21	-2.264	-2.602	-1.360	-1.803	-1.531	-.947	-.684
22	-1.620	-1.322	-.782	-.881	-1.231	-.707	-.702
23	-1.307	-.599	-.418	-.415	-.228	-.316	-.313
24	-.932	-.350	-.361	-.372	-.050	-.106	-.251
25	.583	.807	.649	.325	.324	.062	-.365
26	-.473	-.393	.146	-.238	.000.000	-.153	-.079
27	.505	.732	.875	-.135	-.129	-.119	-.142
28	.309	.611	.745	.369	-.183	-.019	-.085
29	-.144	.466	.540	.617	.381	.010	-.029
30	-.272	.674	.709	.727	.608	.638	-.145
31	.147	.915	.978	1.011	.827	.570	-.054
32	.307	.866	.700	1.078	1.056	.754	-.143
33	.270	.594	.505	.863	.924	.582	-.004

$\alpha = 60°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	-.588	.029	-.846	.988	1.063	.525	-.403
2	-1.076	-.913	-1.745	1.007	1.155	.536	-.800
3	-1.178	-1.188	-1.925	.953	1.109	.689	-.458
4	-1.149	-1.341	-1.809	.706	.745	.201	-.583
5	-1.333	-1.471	-1.717	.403	.345	.060	-.473
6	-.189	-.002	-.068	-.199	-.151	.046	-.378
7	-1.888	-1.504	-1.918	.226	.397	.411	-.292
H	-2.204	-2.711	-2.343	-.787	-.657	-.272	-.112
9	-2.387	-3.032	-3.018	-1.810	-1.650	-.803	-.304
10	-1.535	-2.278	-1.961	-1.638	-1.345	-.557	-.577
11	-1.208	-1.544	.000.000	-1.219	-1.005	-.438	-.201
12	-1.184	-1.129	-.868	-.796	-.543	-.209	-.446
13	-1.561	-1.078	-.871	-.705	-.526	-.349	-.384
14	-1.364	-1.088	-.909	-.735	-.507	-.378	-.168
15	-1.230	-1.110	-.347	-.128	.056	-.030	-.220
16	-2.098	-1.923	-1.728	-1.788	-1.058	-.711	-.537
17	-2.711	-3.985	-2.155	-2.494	-2.002	-1.033	-.503
18	-3.369	-2.525	-2.330	-2.814	-2.331	-1.512	-.649
19	-2.440	-2.663	-2.293	-2.892	-2.041	-.983	-.823
20	-2.218	-1.996	-1.696	-2.166	-1.120	-.821	-.769
21	-1.892	-1.534	-1.265	-1.712	-1.216	-.755	-.503
22	-1.217	-1.028	-.747	-.804	-.469	-.627	-.495
23	-.603	-.432	-.332	-.336	-.307	-.468	-.300
24	-.612	-.368	-.420	-.018	-.019	-.188	-.133
25	.690	.889	.584	.357	.340	-.260	-.248
26	-.745	-.446	.175	-.175	.000.000	-.277	-.146
27	.650	.737	.852	-.159	-.073	-.286	-.003
28	.212	.545	.672	.209	-.116	-.223	-.089
29	-.102	.478	.600	.619	.226	.059	-.023
30	-.346	.528	.632	.729	.546	.409	-.245
31	.136	.869	.767	.861	.773	.420	.117
32	.244	.804	.691	1.017	.949	.544	-.098
33	.133	.537	.486	.840	.872	.478	-.281

Table 31. - Continued.

(a) $C_{T,s} = 0.90$, $q_s = 20.20$

$\alpha = 65°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-.410	-.068	-.764	.957	.931	.046	-.174
2	-1.278	-.960	-1.769	.979	1.054	.553	-.218
3	-1.379	-1.334	-1.944	.984	1.030	.314	-.269
4	-1.380	-1.450	-1.905	.695	.741	.127	-.231
5	-1.533	-1.532	-1.667	.387	.434	.084	-.291
6	-.153	-.029	-.864	-.248	.146	.085	-.078
7	-1.202	-1.598	-1.909	.251	.390	.174	-.089
8	-2.415	-2.838	-2.359	-.775	-.576	-.093	-.086
9	-2.479	-3.078	-2.822	-1.818	-1.408	-.435	-.120
10	-1.642	-2.234	-1.726	-1.533	-1.057	-.306	-.131
11	-1.348	-1.584	.000.000	-1.165	-.803	-.340	-.190
12	-1.031	-1.046	-.818	-.697	-.434	-.263	-.229
13	-1.321	-.976	-.786	-.517	-.324	-.190	-.179
14	-1.445	-1.045	-.882	-.649	-.356	-.204	-.172
15	-1.004	-.993	-.245	-.093	.080	.072	-.020
16	-2.019	-1.749	-1.621	-1.518	-.855	-.467	-.282
17	-2.247	-3.281	-2.037	-1.930	-1.102	-.644	-.545
18	-2.452	-2.343	-2.308	-1.914	-1.674	-.717	-.498
19	-2.593	-2.340	-2.212	-2.111	-1.211	-.666	-.498
20	-1.917	-1.768	-1.662	-1.738	-1.037	-.678	-.426
21	-1.241	-1.311	-.947	-1.363	-.915	-.520	-.378
22	-1.092	-.894	-.628	-.868	-.703	-.541	-.376
23	-.850	-.389	-.206	-.215	-.299	-.318	-.303
24	-.545	-.335	-.327	-.065	-.132	-.220	-.115
25	.325	.829	.615	.343	.259	-.220	-.065
26	-.830	-.272	.154	-.122	.000.000	-.146	.071
27	.592	.760	.872	-.171	-.118	-.157	.015
28	.101	.504	.644	.071	-.080	-.069	.024
29	-.251	.347	.521	.575	.146	-.031	.028
30	-.441	.639	.714	.835	.426	.429	-.035
31	.111	.878	.758	.892	.634	.484	.015
32	.749	.843	.595	1.020	.952	.496	-.257
33	.178	.529	.497	.832	.827	.263	-.178

$\alpha = 70°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-.907	-.234	-.923	.941	.942	.112	-.196
2	-1.488	-1.132	-1.795	.989	1.113	.220	-.032
3	-1.484	-1.446	-1.946	.912	.964	.099	-.062
4	-1.662	-1.812	-2.083	.674	.818	.227	-.028
5	-1.731	-1.697	-1.702	.383	.453	.178	-.029
6	-.171	-.104	-.088	-.288	-.130	.098	-.007
7	-1.350	-1.663	-1.791	.209	.387	.135	-.049
8	-2.585	-2.999	-2.374	-.864	-.412	-.065	-.047
9	-2.561	-3.311	-2.869	-1.955	-1.306	-.203	-.102
10	-1.755	-2.331	-1.717	-1.595	-.896	-.169	-.061
11	-1.332	-1.545	.000.000	-1.127	-.702	-.067	-.113
12	-.993	-.977	-.754	-.617	-.448	-.148	-.158
13	-1.192	-.888	-.729	-.479	-.197	-.095	-.109
14	-1.184	-.920	-.733	-.539	-.335	-.163	-.226
15	-1.133	-1.047	-.225	-.056	.109	.110	-.131
16	-1.700	-1.611	-1.442	-1.186	-.776	-.281	-.283
17	-2.078	-3.176	-1.976	-1.216	-.817	-.283	-.326
18	-2.522	-2.106	-2.198	-1.918	-1.440	-.436	-.434
19	-1.862	-1.963	-2.087	-1.642	-1.204	-.596	-.515
20	-1.690	-1.597	-1.585	-1.209	-.842	-.399	-.406
21	-1.103	-1.144	-1.269	-1.102	-.843	-.384	-.255
22	-1.005	-.881	-.736	-.491	-.543	-.348	-.383
23	-.666	-.359	-.343	-.209	-.220	-.102	-.169
24	-.462	-.336	-.329	-.175	-.115	-.082	-.102
25	-.068	.751	.563	.235	.149	-.094	.006
26	-.638	-.360	.046	-.183	.000.000	-.030	.032
27	.415	.687	.822	-.182	-.126	-.012	.019
28	.090	.699	.653	-.064	-.111	-.049	-.001
29	-.242	.338	.520	.527	.051	.045	.011
30	-.394	.644	.678	.584	.468	.525	.041
31	.124	.811	.677	.652	.534	.564	-.064
32	.208	.714	.501	.968	.795	.521	-.185
33	.123	.429	.490	.897	.936	.431	-.110

$\alpha = 75°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-.141	-.306	-.739	.923	.854	-.012	-.012
2	-1.727	-1.431	-1.923	1.094	1.134	.191	-.129
3	-1.722	-1.728	-1.987	.941	1.028	.158	-.015
4	-1.722	-1.965	-2.110	.752	.915	.010	-.126
5	-1.857	-1.814	-1.766	.408	.698	.128	-.037
6	-.185	-.116	-.103	-.346	-.146	.056	-.039
7	-1.467	-1.856	-1.860	.251	.590	.025	-.102
8	-2.682	-3.131	-2.339	-.829	-.295	-.085	-.052
9	-2.599	-3.331	-2.665	-1.855	-1.036	-.173	-.132
10	-1.880	-2.355	-1.555	-1.432	-.592	-.083	-.108
11	-1.295	-1.464	.000.000	-1.092	-.531	-.173	-.167
12	-.916	-.873	-.673	-.549	-.350	-.075	-.115
13	-1.397	-.850	-.623	-.386	-.284	-.082	-.215
14	-1.315	-.909	-.724	-.534	-.276	-.164	-.218
15	-1.019	-.936	-.136	.060	.036	.092	-.196
16	-1.880	-1.555	-1.433	-.944	-.741	-.549	-.601
17	-2.067	-2.766	-1.883	-1.343	-1.245	-.501	-.397
18	-2.122	-1.712	-1.937	-1.280	-1.047	-.513	-.300
19	-1.516	-1.624	-1.819	-1.340	-1.238	-.375	-.335
20	-1.222	-1.493	-1.656	-1.342	-1.319	-.387	-.478
21	-1.111	-1.164	-1.240	-.999	-.876	-.362	-.399
22	-.910	-.705	-.604	-.641	-.616	-.196	-.299
23	-.605	-.283	-.270	-.261	-.280	-.228	-.238
24	-.433	-.270	-.226	-.130	-.097	-.118	-.211
25	-.322	.812	.606	.179	-.028	-.007	-.110
26	-.555	-.339	.072	-.218	.000.000	-.054	-.097
27	.246	.739	.878	-.211	-.078	-.024	-.101
28	-.023	.813	.569	-.103	-.119	-.049	-.082
29	-.287	.299	.444	.412	.003	.044	-.138
30	-.557	.606	.604	.530	.249	.482	.007
31	.066	.842	.698	.661	.390	.524	-.052
32	.216	.792	.547	1.050	.892	.568	-.243
33	.118	.451	.534	.883	.854	.245	-.160

$\alpha = 80°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-1.322	-.400	-.879	.847	.880	-.146	-.162
2	-1.965	-1.635	-2.006	1.067	.889	-.042	-.069
3	-1.881	-1.844	-2.087	.876	.800	.017	-.001
4	-1.821	-2.072	-2.150	.773	.848	-.076	-.179
5	-1.971	-1.940	-1.737	.394	.508	-.006	-.123
6	-.271	-.228	-.196	-.306	-.165	.143	-.074
7	-1.519	-1.878	-1.844	.197	.533	-.040	-.167
8	-2.599	-3.094	-2.187	-.860	-.022	-.039	-.067
9	-2.591	-3.288	-2.547	-1.800	-.984	-.044	-.070
10	-1.904	-2.446	-1.597	-1.423	-.511	-.084	-.263
11	-1.364	-1.506	.000.000	-.926	-.448	-.042	-.272
12	-1.047	-1.023	-.779	-.553	-.259	-.049	-.233
13	-1.022	-.853	-.650	-.489	-.277	-.120	-.238
14	-1.097	-.892	-.751	-.561	-.357	-.056	-.145
15	-1.063	-1.022	-.161	.053	.072	.179	-.013
16	-1.447	-1.402	-1.312	-.729	-.821	-.221	-.218
17	-2.247	-2.994	-2.016	-1.530	-1.123	-.220	-.128
18	-1.947	-1.551	-1.652	-1.262	-1.276	-.472	-.435
19	-1.873	-1.807	-1.994	-.764	-.742	-.197	-.292
20	-1.596	-1.533	-1.717	-1.282	-.859	-.266	-.228
21	-1.216	-1.199	-1.189	-.811	-.759	-.173	-.378
22	-.925	-.758	-.536	-.385	-.418	-.234	-.259
23	-.600	-.333	-.263	-.157	-.194	-.053	-.186
24	-.404	-.248	-.200	-.102	-.141	-.133	-.171
25	-.391	.729	.548	.081	-.254	-.017	-.135
26	-.721	-.390	.010	-.308	.000.000	.003	.074
27	.088	.722	.842	-.127	-.154	-.042	.034
28	-.073	.395	.563	-.121	-.121	.030	-.122
29	-.345	.272	.518	.320	-.047	.105	.084
30	-.492	.569	.577	.380	.247	.522	.034
31	.191	.855	.651	.711	.266	.492	-.167
32	.134	.668	.516	1.016	.679	.483	-.154
33	.014	.333	.547	1.014	.307	.143	.150

Table 31. - Continued.

(b) $C_{T,s} = 0.80$, $q_s = 19.96$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.003	1.129	.602	-.508	.537	.705	.408
2	.942	1.050	.598	.206	1.058	1.073	.676
3	.881	.986	.613	.463	1.217	1.142	.661
4	.631	.598	.392	.824	1.168	.987	.509
5	.409	.288	.181	.811	.956	.715	.342
6	.007	.027	-.069	-.201	-.073	.259	.013
7	.098	.203	-.103	.673	.725	.619	.359
8	-.612	-.904	-.894	.244	.099	-.134	-.265
9	-1.110	-1.574	-1.847	-.468	-.796	-.948	-.895
10	-.797	-1.229	-1.479	-.706	-.782	-.876	-.666
11	-.549	-.993	*000.000	-.764	-.852	-.688	-.534
12	-1.154	-.692	-.878	-.622	-.639	-.533	-.384
13	-.510	-.643	-.805	-.491	-.480	-.464	-.387
14	-.623	-.599	-.860	-.522	-.417	-.438	-.320
15	-.345	-.546	-.174	-.098	-.005	-.079	-.071
16	-1.350	-1.097	-1.504	-.721	-.489	-.417	-.328
17	-1.810	-2.534	-2.113	-1.123	-.622	-.607	-.430
18	-1.995	-1.419	-2.431	-1.418	-.633	-.719	-.501
19	-2.147	-1.144	-2.807	-1.070	-.509	-.506	-.429
20	-1.811	-.533	-1.379	-.573	-.210	-.221	-.184
21	-1.479	-.491	-.898	-.299	-.172	-.284	-.127
22	-1.017	-.379	-.527	-.276	-.150	-.255	-.158
23	-.695	-.385	-.381	-.282	-.149	-.278	-.201
24	-.594	-.316	-.407	-.268	-.143	-.232	-.167
25	-.245	-.498	-.371	-.658	-.217	-.148	-.077
26	-.250	-.063	-.003	-.582	*000.000	-.442	-.059
27	-.123	.072	.020	-.224	-.007	-.088	-.064
28	.074	.068	.533	-.155	.023	-.107	-.035
29	.215	.641	.392	.056	-.075	-.036	.117
30	.002	.796	.524	.155	.067	-.027	-.077
31	-.423	1.056	.759	-.005	.021	.018	-.060
32	.867	1.075	.873	-.098	.077	0.	.376
33	.698	.831	.822	.188	.109	-.142	-.001

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.055	1.048	.462	-.099	.737	.890	.613
2	.896	.827	.330	.436	1.132	1.212	.718
3	.749	.607	.217	.525	1.118	1.133	.559
4	.523	.296	.051	.714	1.066	.907	.433
5	.284	.023	.046	.745	.817	.583	.263
6	.034	.045	.163	-.050	.008	.323	.026
7	.068	-.097	-.467	.623	.638	.601	.341
8	-.700	-1.241	-1.195	.069	-.220	-.266	-.366
9	-1.205	-1.879	-2.133	-.748	-1.113	-1.143	-.980
10	-.859	-1.461	-1.603	-.812	-.982	-.940	-.761
11	-.643	-1.157	*000.000	-.884	-.986	-.729	-.596
12	-1.200	-.833	-.815	-.689	-.746	-.536	-.486
13	-.631	-.751	-.790	-.532	-.547	-.469	-.410
14	-.799	-.777	-.763	-.572	-.554	-.390	-.385
15	-.440	-.691	-.199	.042	-.070	-.026	-.096
16	-1.649	-1.275	-1.765	-.827	-.767	-.617	-.389
17	-2.373	-3.067	-2.694	-1.332	-1.106	-.679	-.548
18	-2.730	-1.814	-2.693	-1.545	-1.166	-1.301	-.922
19	-2.725	-1.628	-2.710	-1.408	-.943	-.629	-.487
20	-2.278	-.774	-1.630	-.454	-.276	-.293	-.175
21	-1.749	-.514	-1.147	-.393	-.207	-.138	-.171
22	-1.225	-.490	-.653	-.303	-.206	-.250	-.262
23	-.683	-.449	-.297	-.261	-.182	-.148	-.194
24	-.585	-.419	-.318	-.248	-.195	-.190	-.237
25	.471	.689	.658	-.446	-.090	.001	.127
26	-.036	-.005	-.100	-.540	*000.000	-.131	-.010
27	-.025	-.035	.400	-.110	.023	.065	.004
28	.156	.627	.625	-.075	-.019	.004	.105
29	.197	.559	.546	.206	-.023	.169	.133
30	.300	.840	.584	.223	.160	.167	.039
31	.671	.994	.893	.197	.199	.147	.049
32	.797	.962	.883	.415	.212	.144	.224
33	.647	.795	.804	.615	.164	.262	.421

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.112	1.015	.229	.286	.911	1.057	.679
2	.759	.544	-.203	.584	1.117	1.179	.513
3	.639	.382	-.323	.711	1.161	1.089	.613
4	.352	.022	-.420	.754	1.022	.837	.270
5	.136	-.280	-.456	.745	.692	.503	.074
6	.126	.131	.101	-.022	.055	.378	.064
7	-.103	-.552	-1.064	.608	.559	.531	.380
8	-.900	-1.632	-1.644	-.031	-.436	-.508	-.465
9	-1.342	-2.126	-2.507	-.817	-1.441	-1.415	-1.056
10	-.988	-1.652	-1.870	-.975	-1.220	-1.174	-.822
11	-.774	-1.273	*000.000	-.969	-1.187	-.884	-.643
12	-1.323	-.896	-.933	-.744	-.856	-.577	-.506
13	-.768	-.878	-.937	-.615	-.681	-.514	-.400
14	-.967	-.860	-.951	-.624	-.635	-.437	-.403
15	-.574	-.787	-.239	.011	-.090	-.032	.038
16	-1.431	-1.612	-2.022	-1.088	-.991	-.920	-.662
17	-2.762	-3.285	-2.745	-1.402	-1.240	-1.073	-.795
18	-3.044	-1.929	-3.139	-1.564	-1.442	-1.368	-1.108
19	-2.332	-2.106	-2.872	-1.497	-1.075	-1.051	-.963
20	-2.562	-.819	-2.467	-.679	-.371	-.534	-.578
21	-1.929	-.696	-1.537	-.340	-.308	-.348	-.165
22	-1.240	-.699	-.922	-.287	-.286	-.345	-.280
23	-.926	-.682	-.246	-.225	-.263	-.268	-.242
24	-.918	-.600	-.142	-.215	-.204	-.171	-.260
25	.606	.782	.608	-.293	-.188	.124	.217
26	.032	-.215	.087	-.311	*000.000	.041	-.017
27	.002	.012	.598	-.029	.029	.022	.005
28	.235	.734	.610	.044	.025	.060	.071
29	.219	.604	.558	.401	.131	.170	.225
30	.293	.831	.701	.281	.237	.269	.142
31	.611	1.036	.879	.578	.374	.558	.243
32	.723	.939	.816	.883	.434	.268	.344
33	.671	.752	.791	1.042	.769	.322	.217

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.929	.825	-.181	.718	1.038	1.099	.659
2	.565	.265	-.738	.742	1.181	1.242	.267
3	.440	.041	-.891	.772	1.204	1.078	.295
4	.156	-.327	-1.010	.731	.988	.826	.110
5	-.044	-.536	-.896	.594	.585	.434	-.092
6	.102	.249	.122	-.094	.124	.388	.106
7	-.294	-.959	-1.543	.406	.519	.588	-.036
8	-1.189	-2.054	-2.047	-.363	-.535	-.482	-.542
9	-1.657	-2.581	-2.967	-1.280	-1.779	-1.507	-1.160
10	-1.208	-1.904	-2.066	-1.265	-1.398	-1.226	-.875
11	-.875	-1.397	*000.000	-1.127	-1.277	-.860	-.727
12	-1.359	-.953	-.949	-.849	-.888	-.551	-.585
13	-1.043	-1.041	-.933	-.712	-.759	-.441	-.441
14	-1.308	-1.128	-.947	-.771	-.768	-.547	-.407
15	-.913	-.845	-.292	-.032	-.056	-.177	-.063
16	-2.560	-1.731	-1.998	-1.420	-1.274	-1.153	-.673
17	-3.372	-4.882	-2.835	-2.039	-2.053	-1.569	-1.143
18	-3.947	-3.489	-2.965	-2.357	-2.078	-1.990	-1.442
19	-4.193	-3.616	-2.711	-2.183	-1.802	-1.848	-1.228
20	-3.150	-2.669	-2.106	-1.163	-.788	-1.169	-1.039
21	-2.909	-2.378	-1.448	-.553	-.535	-.384	-.502
22	-1.815	-1.221	-.675	-.352	-.314	-.275	-.206
23	-1.295	-.764	-.196	-.315	-.250	-.207	-.198
24	-1.150	-.977	-.139	-.278	-.199	-.203	-.159
25	.644	1.008	.739	.254	.291	.390	.304
26	.016	-.186	.246	-.160	*000.000	.143	.041
27	.199	.349	.829	-.008	.134	.186	.181
28	.171	.763	.709	.155	.076	.133	.134
29	.172	.641	.666	.659	.406	.363	.242
30	.111	.848	.738	.700	.611	.696	.173
31	.459	.992	.891	.743	.589	.644	.327
32	.610	.999	.978	1.084	1.002	.751	.353
33	.509	.773	.805	.989	.998	.682	.542

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.958	.635	-.445	.867	1.190	1.175	.054
2	.458	-.113	-1.240	.887	1.190	1.133	-.234
3	.317	-.382	-1.312	.783	1.045	.977	-.103
4	.037	-.691	-1.408	.683	.753	.535	-.389
5	-.165	-.872	-1.253	.469	.347	.139	-.370
6	.140	.275	.118	-.045	.024	.176	-.093
7	-.521	-1.207	-1.845	.350	.440	.105	-.311
8	-1.377	-2.303	-2.365	-.604	-.817	-.823	-.773
9	-1.673	-2.858	-3.004	-1.577	-1.923	-1.761	-1.422
10	-1.326	-2.148	-2.335	-1.529	-1.793	-1.610	-1.129
11	-.933	-1.435	*000.000	-1.224	-1.439	-1.066	-.860
12	-1.454	-1.091	-1.015	-.983	-1.080	-.789	-.682
13	-1.167	-1.106	-.968	-.748	-.895	-.690	-.640
14	-1.519	-1.174	-.947	-.804	-.868	-.681	-.602
15	-1.090	-.888	-.272	-.115	-.088	-.050	-.117
16	-2.701	-2.197	-1.824	-1.688	-1.664	-1.594	-.915
17	-3.780	-5.115	-2.356	-2.442	-2.351	-1.955	-1.414
18	-4.534	-3.644	-2.609	-2.896	-2.729	-2.588	-1.781
19	-4.209	-3.771	-2.634	-2.779	-2.355	-2.294	-1.729
20	-3.681	-3.210	-2.014	-2.062	-1.182	-1.788	-1.528
21	-2.852	-2.389	-1.318	-1.182	-.435	-.887	-1.055
22	-2.011	-1.426	-.830	-.402	-.396	-.508	-.883
23	-1.366	-.526	-.314	-.290	-.324	-.297	-.449
24	-1.272	-.040	-.168	-.288	-.256	-.452	-.399
25	.780	.966	.635	.420	.446	.358	-.167
26	.141	-.238	.330	-.102	*000.000	.020	-.124
27	.078	.768	.922	-.003	.034	.029	-.090
28	.529	.736	.746	.606	-.007	.033	.036
29	.138	.608	.638	.701	.626	.512	.193
30	-.004	.772	.733	.828	.732	.643	.031
31	.326	.915	.908	1.020	.840	.727	.151
32	.578	.939	.941	1.075	1.018	.889	.440
33	.440	.705	.796	.826	.961	.566	.238

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.874	.390	-.829	1.000	1.254	1.263	-.453
2	.365	-.484	-1.707	.933	1.186	1.167	-.725
3	.124	-.793	-1.931	.818	1.000	.959	-.623
4	-.151	-1.059	-1.931	.632	.709	.499	-.718
5	-.289	-1.091	-1.508	.345	.242	.059	-.698
6	.168	.204	.084	-.061	-.012	.151	-.120
7	-.670	-1.392	-2.068	.310	.358	.118	-.430
8	-1.559	-2.571	-2.606	-.764	-.984	-.778	-.794
9	-1.874	-3.055	-3.534	-1.834	-2.217	-1.983	-1.533
10	-1.341	-2.123	-2.268	-1.638	-1.781	-1.414	-1.061
11	-1.029	-1.493	*000.000	-1.341	-1.446	-.917	-.752
12	-1.322	-1.087	-.904	-.974	-1.053	-.625	-.758
13	-1.285	-1.095	-.905	-.820	-.873	-.625	-.693
14	-1.726	-1.224	-.948	-.885	-.931	-.717	-.655
15	-1.302	-.937	-.276	-.055	-.125	-.040	-.181
16	-2.647	-2.217	-1.795	-1.907	-1.878	-1.784	-1.186
17	-3.665	-5.033	-2.267	-2.552	-2.320	-1.964	-1.356
18	-4.206	-3.619	-2.339	-2.807	-2.733	-2.696	-1.634
19	-3.688	-3.650	-2.200	-2.874	-2.215	-2.565	-1.704
20	-3.095	-2.986	-1.685	-2.089	-1.593	-2.071	-1.649
21	-2.532	-2.301	-1.284	-1.078	-.767	-1.428	-1.261
22	-1.919	-1.529	-.900	-.498	-.375	-.836	-1.028
23	-1.479	-.497	-.376	-.377	-.385	-.523	-.816
24	-1.283	-.107	-.284	-.381	-.370	-.462	-.380
25	.882	1.039	.645	.683	.555	.399	-.156
26	.002	-.190	.407	.022	*000.000	-.019	-.086
27	.065	.882	.997	.024	-.067	.026	-.135
28	.541	.748	.769	.799	.017	-.058	.022
29	.048	.631	.704	.742	.732	.475	.218
30	-.150	.776	.811	.876	.804	.729	.039
31	.333	.980	1.020	1.152	1.130	.960	-.066
32	.488	.921	.916	1.103	1.020	1.059	.330
33	.399	.685	.617	.840	.861	.585	.190

Table 31. - Continued.

(b) $C_{T,S} = 0.80$, $q_s = 19.96$

$\alpha = 35°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.412	.120	-1.162	1.109	1.286	1.358	-.332
2	.127	-.864	-2.115	.853	1.100	1.008	-.551
3	-.105	-1.179	-2.361	.741	.933	.872	-.745
4	-.314	-1.355	-2.222	.470	.558	.417	-.721
5	-.459	-1.303	-1.787	.218	.115	.023	-.681
6	.154	.144	.070	.055	-.036	.097	-.159
7	-.745	-1.608	-2.291	.233	.235	.386	-.262
8	-1.871	-3.006	-2.941	-1.072	-1.130	-.874	-.818
9	-2.195	-3.354	-3.758	-2.341	-2.426	-1.787	-1.030
10	-1.413	-2.280	-2.314	-1.930	-1.874	-1.254	-.828
11	-1.109	-1.574	.000,000	-1.459	-1.496	-.913	-.603
12	-1.288	-1.126	-.951	-1.042	-1.074	-.590	-.485
13	-1.459	-1.189	-.924	-.835	-.875	-.594	-.578
14	-1.844	-1.265	-.981	-.900	-.970	-.711	-.471
15	-1.202	-.941	-.299	-.126	-.148	-.106	-.215
16	-2.823	-2.350	-1.955	-1.808	-2.143	-1.986	-1.004
17	-3.618	-4.347	-2.301	-2.604	-2.973	-2.406	-1.368
18	-3.410	-3.769	-2.545	-2.733	-3.219	-2.912	-1.709
19	-3.691	-3.792	-2.312	-2.589	-3.164	-2.811	-1.695
20	-3.093	-3.079	-1.756	-1.965	-1.949	-2.359	-1.324
21	-2.384	-2.353	-1.432	-.701	-1.203	-1.961	-1.405
22	-1.910	-1.569	-1.026	-.432	-.635	-1.329	-1.043
23	-1.438	-.497	-.413	-.398	-.523	-.545	-.725
24	-1.281	-.216	-.387	-.340	-.462	-.327	-.320
25	.965	.983	.576	.681	.581	.403	-.421
26	-.178	.056	.471	-.026	.000,000	.005	-.035
27	.182	1.010	1.044	.044	-.144	-.062	.031
28	.478	.743	.820	.840	.056	0.	.244
29	-.005	.611	.686	.718	.673	.394	.291
30	-.206	.752	.789	.865	.794	.718	.077
31	.262	1.002	1.000	1.038	1.181	1.034	-.001
32	.422	.995	.899	1.183	1.199	1.042	.321
33	.360	.686	.665	.897	.881	.702	.223

$\alpha = 40°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	-.524	-.232	-1.399	1.097	1.220	1.190	-.905
2	-.155	-1.309	-2.596	.855	1.093	1.024	-.913
3	-.349	-1.639	-2.684	.653	.815	.785	-1.006
4	-.535	-1.705	-2.555	.353	.451	.300	-1.160
5	-.702	-1.674	-2.094	.065	.028	-.118	-.917
6	.048	.107	.057	.060	-.011	.035	-.130
7	-.890	-1.740	-2.351	-.144	-.034	.265	-.469
8	-2.072	-3.158	-3.043	-1.286	-1.173	-.744	-.725
9	-2.184	-3.318	-3.604	-2.425	-2.366	-1.554	-.894
10	-1.735	-2.611	-2.527	-2.243	-2.036	-1.289	-.849
11	-1.148	-1.585	.000,000	-1.506	-1.407	-.746	-.732
12	-1.257	-1.126	-.899	-1.061	-.969	-.522	-.674
13	-1.556	-1.181	-.910	-.873	-.787	-.589	-.631
14	-1.764	-1.293	-1.018	-1.047	-.928	-.672	-.619
15	-1.323	-.842	-.218	-.120	-.117	-.023	-.414
16	-2.517	-2.175	-1.786	-2.058	-2.174	-1.778	-.995
17	-2.797	-4.686	-2.042	-2.568	-2.822	-1.992	-1.368
18	-3.580	-3.538	-2.365	-3.196	-3.420	-2.619	-1.706
19	-2.456	-3.565	-2.490	-2.975	-3.121	-2.568	-1.704
20	-2.687	-2.745	-1.791	-2.276	-2.739	-1.935	-1.465
21	-2.125	-2.041	-1.355	-1.592	-2.139	-1.665	-1.236
22	-1.795	-1.360	-.917	-.462	-1.154	-1.319	-1.011
23	-1.552	-.564	-.374	-.460	-.504	-.529	-.949
24	-1.171	-.336	-.332	-.420	-.235	-.204	-.457
25	.971	.929	.447	.847	.686	.469	-.502
26	-.326	.408	.532	-.016	.000,000	-.002	-.235
27	.433	.964	1.048	.111	-.204	.029	-.132
28	.490	.774	.889	.893	.335	-.011	.086
29	-.063	.602	.723	.740	.695	.358	.008
30	-.243	.753	.804	.843	.740	.679	-.332
31	.264	.991	1.019	1.149	1.209	1.082	-.316
32	.449	.978	.830	1.096	1.208	1.066	.106
33	.478	.683	.572	.874	.950	.660	-.044

$\alpha = 45°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.367	-.467	-1.616	1.112	1.244	1.140	-.757
2	-.386	-1.435	-2.919	.762	1.015	.903	-.994
3	-.582	-1.781	-2.734	.562	.716	.644	-.986
4	-.904	-1.965	-2.734	.301	.390	.239	-.806
5	-1.109	-1.866	-2.196	.008	-.063	-.054	-.782
6	.033	.068	.065	.039	-.027	.104	.012
7	-1.138	-1.934	-2.417	-.298	-.092	.404	-.434
8	-2.249	-3.118	-2.946	-1.324	-1.159	-.573	-.659
9	-2.327	-3.411	-3.581	-2.446	-2.374	-1.386	-.870
10	-1.712	-2.501	-2.309	-2.209	-1.953	-1.059	-.657
11	-1.357	-1.713	.000,000	-1.566	-1.413	-.687	-.618
12	-1.226	-1.173	-.941	-1.053	-.869	-.455	-.413
13	-1.567	-1.189	-.942	-.954	-.694	-.527	-.454
14	-1.702	-1.257	-.969	-.969	-.686	-.496	-.494
15	-1.271	-.899	-.228	-.143	-.078	.074	-.213
16	-2.415	-2.207	-1.888	-2.242	-2.287	-1.620	-1.019
17	-3.443	-5.069	-2.493	-3.210	-2.674	-1.966	-1.244
18	-2.996	-3.184	-2.403	-3.296	-2.923	-2.427	-1.283
19	-2.660	-2.951	-2.145	-3.298	-2.627	-1.823	-1.179
20	-2.429	-2.604	-1.862	-2.655	-2.567	-2.123	-1.415
21	-2.199	-1.930	-1.365	-1.997	-1.749	-1.614	-1.089
22	-1.739	-1.178	-.768	-1.040	-1.272	-1.043	-.918
23	-1.355	-.554	-.439	-.463	-.495	-.482	-.688
24	-1.152	-.446	-.377	-.337	-.053	-.066	-.232
25	.896	.883	.367	.905	.748	.569	-.276
26	-.502	.488	.565	-.037	.000,000	.080	.135
27	.732	.968	1.042	.056	-.155	.050	.033
28	.337	.710	.815	.874	.530	.102	.223
29	-.105	.576	.747	.714	.670	.410	.187
30	-.316	.802	.848	.883	.781	.732	-.142
31	.129	1.026	1.022	1.163	1.201	.972	.020
32	.362	.955	.744	1.026	1.111	.920	.169
33	.301	.683	.612	.880	.893	.564	-.024

$\alpha = 50°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	-.042	-.669	-1.946	1.150	1.282	.895	-.967
2	-1.020	-2.008	-3.216	.689	.898	.741	-1.034
3	-1.134	-2.249	-3.275	.400	.612	.596	-.865
4	-1.268	-2.145	-2.947	.219	.289	.216	-.701
5	-1.587	-2.045	-2.408	-.086	-.102	-.090	-.552
6	.067	.038	-.053	.099	-.074	-.074	-.105
7	-1.377	-2.007	-2.402	-.366	-.140	.323	-.338
8	-2.616	-3.308	-2.935	-1.420	-1.121	-.472	-.489
9	-2.752	-3.596	-3.635	-2.627	-2.372	-1.226	-.628
10	-1.896	-2.580	-2.266	-2.175	-1.798	-.827	-.439
11	-1.561	-1.756	.000,000	-1.548	-1.295	-.450	-.354
12	-1.248	-1.123	-.978	-1.015	-.769	-.306	-.269
13	-1.506	-1.128	-1.003	-.856	-.573	-.303	-.328
14	-1.541	-1.168	-.982	-.913	-.610	-.342	-.341
15	-1.358	-.902	-.311	-.208	.013	.089	-.233
16	-2.458	-2.193	-2.021	-2.150	-1.553	-1.303	-.830
17	-3.157	-4.341	-2.416	-2.693	-2.078	-1.482	-.922
18	-3.094	-2.928	-2.563	-3.176	-2.467	-2.061	-1.291
19	-2.659	-2.684	-2.406	-3.245	-2.153	-1.573	-.992
20	-2.487	-2.341	-1.847	-2.727	-2.165	-1.486	-1.154
21	-1.969	-1.790	-1.475	-2.052	-1.864	-1.265	-.887
22	-1.619	-1.116	-.671	-1.304	-1.288	-1.113	-.862
23	-1.182	-.515	-.502	-.279	-.352	-.445	-.413
24	-.904	-.442	-.514	-.204	-.083	-.078	-.090
25	.660	.827	.230	.942	.744	.311	-.362
26	-.525	.525	.527	-.121	.000,000	.019	.045
27	.778	.957	.986	.105	-.155	.039	.110
28	.211	.703	.794	.862	.406	.281	.134
29	-.179	.521	.651	.704	.560	.205	.189
30	-.461	.791	.787	.891	.712	.659	-.118
31	.076	.972	.884	1.040	1.057	.848	-.017
32	.357	1.016	.748	1.175	1.164	.947	.138
33	.214	.657	.572	.860	.793	.516	-.056

$\alpha = 55°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	-.564	-.884	-2.013	1.056	1.191	.868	-.778
2	-1.047	-2.211	-3.110	.612	.889	.533	-.458
3	-1.486	-2.454	-3.228	.376	.609	.479	-.698
4	-1.624	-2.434	-2.970	.099	.245	.288	-.477
5	-1.883	-2.178	-2.341	-.112	-.043	-.066	-.408
6	.178	.022	-.004	.061	-.031	-.021	-.100
7	-1.676	-2.253	-2.542	-.513	-.160	-.262	-.352
8	-2.910	-3.622	-3.032	-1.630	-1.254	-.412	-.454
9	-3.072	-3.841	-3.612	-2.760	-2.353	-1.192	-.472
10	-1.994	-2.616	-2.120	-2.155	-1.648	-.652	-.283
11	-1.542	-1.756	.000,000	-1.593	-1.211	-.500	-.416
12	-1.242	-1.149	-1.000	-1.031	-.714	-.363	-.369
13	-1.755	-1.177	-1.068	-.868	-.508	-.385	-.282
14	-1.608	-1.126	-.994	-.905	-.503	-.375	-.353
15	-1.181	-.875	-.273	-.179	.007	.057	-.390
16	-2.360	-2.017	-1.996	-1.965	-1.281	-1.031	-.607
17	-2.696	-3.804	-2.305	-2.742	-1.784	-1.318	-1.087
18	-2.955	-2.539	-2.615	-2.945	-2.244	-1.820	-1.188
19	-2.869	-2.619	-2.449	-3.098	-2.268	-1.760	-1.092
20	-1.847	-1.996	-1.833	-2.497	-1.495	-1.503	-1.232
21	-1.723	-1.497	-1.341	-1.882	-1.401	-1.066	-1.056
22	-1.353	-.935	-.874	-1.045	-.692	-.948	-.662
23	-.981	-.477	-.510	-.341	-.501	-.458	-.632
24	-.436	-.338	-.458	-.056	-.054	-.103	-.196
25	.386	.711	.239	.895	.717	.216	-.471
26	-.196	.558	.549	-.086	.000,000	.087	.105
27	.613	.989	1.033	.021	-.164	.003	.047
28	.182	.700	.825	.809	.450	.184	.137
29	-.250	.456	.590	.625	.528	.169	.024
30	-.377	.805	.767	.851	.695	.607	-.067
31	.149	1.078	.899	1.084	1.069	.796	-.083
32	.266	.889	.699	1.039	1.071	.871	0.
33	.246	.511	.621	.858	.826	.560	-.129

$\alpha = 60°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	-1.194	-1.274	-2.017	1.072	1.168	.240	-.612
2	-1.921	-2.755	-3.404	.558	.837	.405	-.467
3	-1.978	-2.774	-3.251	.319	.570	.391	-.492
4	-2.041	-2.833	-3.147	.012	.224	.039	-.381
5	-2.294	-2.476	-2.460	-.219	-.137	-.135	-.550
6	-.104	-.161	-.123	-.049	-.115	.007	-.117
7	-1.945	-2.480	-2.647	-.623	-.301	.301	-.308
8	-3.234	-3.477	-3.106	-1.712	-1.254	-.430	-.340
9	-3.235	-4.074	-3.663	-2.782	-2.263	-.795	-.288
10	-2.132	-2.741	-2.109	-2.243	-1.735	-.565	-.262
11	-1.565	-1.790	.000,000	-1.497	-1.067	-.369	-.262
12	-1.300	-1.222	-1.012	-.947	-.600	-.226	-.202
13	-1.599	-1.183	-1.120	-.857	-.435	-.302	-.307
14	-1.443	-1.156	-1.117	-.885	-.577	-.409	-.383
15	-1.218	-.843	-.374	-.212	.084	0.	-.312
16	-2.206	-1.860	-1.976	-2.071	-1.576	-.965	-.559
17	-2.526	-3.551	-2.572	-2.670	-1.851	-1.294	-.986
18	-2.493	-2.517	-2.674	-3.047	-2.271	-1.474	-1.248
19	-1.988	-2.222	-2.620	-3.200	-2.297	-1.509	-1.086
20	-1.464	-1.729	-1.969	-2.364	-1.589	-1.193	-.880
21	-1.384	-1.262	-1.230	-1.804	-1.497	-1.094	-.852
22	-1.216	-.798	-.753	-1.212	-.806	-.731	-.773
23	-.880	-.508	-.508	-.404	-.425	-.476	-.658
24	-.670	-.508	-.585	-.191	-.108	-.171	-.290
25	.381	.697	.307	.912	.761	.194	-.261
26	-.417	.372	.366	-.197	.000,000	-.013	-.033
27	.242	.886	.974	.066	-.196	-.079	-.041
28	.014	.576	.738	.753	.293	.083	.016
29	-.324	.371	.545	.584	.473	.125	.132
30	-.569	.747	.641	.862	.630	.476	-.193
31	.193	1.013	.858	1.150	1.108	.740	-.206
32	.302	.734	.697	1.071	1.082	.804	.040
33	.168	.318	.567	.895	.817	.406	.099

Table 31. - Continued.

(b) $C_{T,s} = 0.80$, $q_s = 19.96$

$\alpha = 65°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-1.880	-2.089	-2.018	.997	1.149	.356	-.380
2	-2.128	-3.278	-3.410	.417	.753	-.107	-.483
3	-2.183	-3.340	-3.521	.332	.592	.337	-.248
4	-2.218	-3.245	-3.412	-.067	.162	-.116	-.385
5	-2.624	-2.800	-2.559	-.297	-.126	.015	-.338
6	-.377	-.255	-.172	-.044	-.125	-.023	-.033
7	-1.949	-2.611	-2.665	-.665	-.294	.203	-.248
8	-3.083	-3.871	-2.861	-1.555	-1.002	-.203	-.145
9	-2.902	-3.936	-3.341	-2.578	-1.965	-.573	-.229
10	-2.864	-2.841	-2.085	-2.258	-1.658	-.512	-.197
11	-1.602	-1.747	.000.000	-1.542	-1.016	-.332	-.277
12	-1.265	-1.146	-1.078	-.985	-.636	-.411	-.319
13	-1.600	-1.168	-1.154	-.920	-.566	-.404	-.369
14	-1.529	-1.229	-1.275	-.958	-.611	-.514	-.444
15	-1.211	-.813	-.342	-.168	.110	-.031	-.258
16	-1.748	-1.663	-1.990	-2.139	-1.675	-1.173	-.807
17	-2.217	-3.448	-2.593	-2.797	-1.895	-1.366	-1.053
18	-2.316	-2.263	-2.760	-2.548	-1.807	-1.135	-.826
19	-1.899	-2.227	-2.848	-2.828	-2.066	-1.659	-1.131
20	-1.329	-1.683	-2.121	-2.251	-1.500	-.906	-.919
21	-1.078	-1.189	-1.639	-1.908	-1.325	-1.030	-.958
22	-1.085	-.720	-.941	-.886	-.877	-.746	-.784
23	-.742	-.440	-.462	-.379	-.458	-.559	-.438
24	-.566	-.492	-.550	-.273	-.265	-.249	-.186
25	-.728	.477	.290	1.014	.766	-.014	-.298
26	-.485	.388	.234	-.146	.000.000	.005	.085
27	.011	.813	.965	.036	-.112	-.011	.074
28	-.031	.518	.770	.764	.327	.080	.040
29	-.255	.347	.529	.637	.502	.140	.113
30	-.378	.792	.621	.854	.555	.506	-.205
31	.159	.888	.681	1.109	1.041	.669	-.198
32	.182	.588	.660	.965	.949	.714	-.056
33	.035	.153	.517	.757	.690	.363	-.112

$\alpha = 70°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-1.958	-2.388	-2.059	1.026	1.150	.244	-.084
2	-2.255	-3.630	-3.368	.532	.878	.363	.073
3	-2.314	-3.879	-3.491	.272	.507	.086	-.211
4	-2.223	-3.538	-3.274	.006	.239	.146	-.163
5	-2.439	-2.901	-2.536	-.318	-.067	.009	-.245
6	-.414	-.389	-.143	-.099	-.039	.158	-.025
7	-1.594	-2.415	-2.227	-.442	.016	.256	.045
8	-2.729	-4.092	-2.882	-1.759	-1.041	-.216	-.327
9	-2.701	-4.062	-3.367	-2.660	-1.701	-.457	-.296
10	-2.045	-2.817	-1.936	-2.096	-1.114	-.242	-.251
11	-1.414	-1.637	.000.000	-1.368	-.827	-.263	-.307
12	-1.268	-1.132	-1.044	-.920	-.521	-.250	-.313
13	-.965	-.983	-1.000	-.817	-.413	-.244	-.317
14	-1.029	-1.058	-1.136	-.943	-.496	-.258	-.300
15	-.869	-.671	-.332	-.132	.124	.099	-.174
16	-1.365	-1.495	-1.911	-1.889	-1.089	-.984	-.727
17	-1.430	-2.847	-2.278	-2.378	-1.797	-1.097	-.817
18	-1.657	-1.916	-2.664	-2.039	-1.763	-.971	-.833
19	-1.277	-1.921	-2.828	-2.540	-1.923	-1.066	-.642
20	-1.065	-1.714	-2.408	-1.925	-1.566	-.949	-.866
21	-.694	-1.186	-1.834	-1.861	-1.469	-.941	-.922
22	-.727	-.671	-1.037	-.859	-.850	-.335	-.431
23	-.499	-.421	-.388	-.390	-.433	-.360	-.370
24	-.448	-.518	-.415	-.195	-.189	-.107	-.175
25	-1.053	-.119	.322	.885	.736	.010	-.089
26	-.647	.330	.146	-.210	.000.000	.038	.063
27	-.180	.661	1.008	-.020	-.067	.104	.147
28	-.024	.412	.724	.725	.157	.174	.158
29	-.184	.258	.467	.569	.521	.259	.151
30	-.384	.619	.492	.725	.552	.516	-.114
31	.235	.816	.668	.998	1.034	.781	-.035
32	.243	.589	.630	.934	1.015	.700	-.063
33	.077	.213	.621	.739	.765	.558	-.017

$\alpha = 75°$

TUBE NO	WING STATIONS						
	1	2	3	4	5	6	7
1	-2.166	-2.934	-2.217	1.050	1.168	.131	.028
2	-2.525	-4.296	-3.508	.690	.963	.082	-.043
3	-2.176	-4.258	-3.674	.253	.639	.432	.045
4	-2.226	-3.744	-3.454	-.009	.342	-.064	-.048
5	-2.571	-3.012	-2.471	-.243	.029	.015	-.062
6	-.661	-.440	-.184	-.093	-.065	.027	-.042
7	-1.593	-2.597	-2.249	-.280	.313	-.028	-.097
8	-2.392	-3.915	-2.799	-1.495	-.719	-.181	-.127
9	-2.144	-3.802	-3.117	-2.615	-1.651	-.329	-.184
10	-1.502	-2.425	-1.739	-1.985	-.992	-.159	-.157
11	-1.216	-1.367	.000.000	-1.195	-.562	-.063	-.142
12	-1.053	-.961	-.873	-.754	-.362	-.136	-.266
13	-1.362	-1.045	-1.005	-.675	-.363	-.229	-.282
14	-.949	-.820	-.878	-.448	-.156	-.066	-.040
15	-.828	-.613	-.282	-.041	.064	.069	-.227
16	-1.030	-1.335	-1.650	-1.033	-.860	-.522	-.527
17	-1.461	-2.836	-2.245	-1.240	-1.014	-.457	-.487
18	-.994	-1.632	-2.282	-1.227	-1.060	-.629	-.706
19	-1.137	-1.701	-2.466	-1.751	-1.261	-.355	-.281
20	-.739	-1.396	-2.038	-1.317	-.889	-.582	-.799
21	-.813	-1.234	-1.693	-1.120	-1.349	-.402	-.436
22	-.456	-.883	-1.294	-.718	-.894	-.638	-.611
23	-.346	-.366	-.410	-.363	-.400	-.271	-.284
24	-.224	-.223	-.223	-.190	-.207	-.198	-.188
25	-1.194	-.752	.247	.935	.741	-.088	-.093
26	-.711	.351	.236	-.173	.000.000	-.020	-.021
27	-.189	.583	.951	-.027	.007	.056	.004
28	-.088	.325	.554	.715	-.086	.058	.094
29	-.125	.250	.378	.502	.406	.187	.176
30	-.212	.591	.448	.789	.492	.567	-.009
31	.260	.809	.645	1.128	1.087	.856	-.024
32	.146	.501	.557	1.003	.903	.653	-.033
33	.078	.246	.578	.772	.677	.473	.073

Table 31.- Continued.

(c) $C_{T,s} = 0.60$, $q_s = 21.78$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	1.048	1.142	.667	.135	.816	.832	.775
2	.992	1.064	.544	.489	1.175	1.144	.921
3	.865	.886	.513	.648	1.171	1.130	.886
4	.664	.554	.338	.787	1.135	1.026	.669
5	.414	.235	.195	.696	.868	.665	.374
6	-.040	-.053	-.076	-.073	.041	.309	.007
7	.114	.123	-.219	.452	.602	.539	.804
8	-.425	-1.107	-.991	-.261	-.325	-.425	-.484
9	-1.179	-1.756	-1.845	-1.085	-1.298	-1.368	-1.294
10	-.975	-1.441	-1.604	-1.177	-1.190	-1.147	-.973
11	-.400	-1.295	.000.000	-1.148	-1.218	-1.048	-.889
12	-1.247	-.912	-.948	-.818	-.840	-.702	-.596
13	-.653	-.901	-.887	-.645	-.637	-.556	-.484
14	-.943	-.938	-.905	-.638	-.535	-.470	-.385
15	-.516	-.090	-.270	-.058	-.079	-.044	-.088
16	-1.483	-1.104	-2.006	-.828	-.650	-.673	-.548
17	-2.334	-3.668	-2.260	-1.270	-.896	-.884	-.814
18	-2.577	-2.135	-2.910	-1.300	-.918	-1.055	-.966
19	-2.498	-1.912	-3.006	-.930	-.636	-.465	-.673
20	-2.068	-1.039	-1.278	-.689	-.278	-.333	-.237
21	-1.653	-.797	-1.395	-.385	-.277	-.285	-.193
22	-1.088	-.709	-.991	-.394	-.254	-.286	-.204
23	-.710	-.561	-.600	-.327	-.208	-.255	-.184
24	-.717	-.532	-.446	-.356	-.218	-.285	-.224
25	.273	.491	.221	-.447	.002	.021	.014
26	-.303	.003	-.105	-.363	.000.000	-.338	-.061
27	-.150	-.008	-.077	-.103	-.028	-.007	-.001
28	.053	-.040	.209	-.087	.042	-.088	-.044
29	.238	.524	.424	.099	.040	.081	.080
30	-.102	.476	.530	.170	.087	.069	-.011
31	.345	.948	.839	.037	.130	.012	.109
32	.839	1.024	.884	.169	.049	.048	.241
33	.752	.820	.666	.275	.080	.239	.509

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.999	1.115	.324	.449	1.044	1.072	.967
2	.824	.727	-.078	.690	1.219	1.211	.883
3	.669	.538	-.142	.546	1.172	1.093	.725
4	.423	.207	-.296	.618	.962	.806	.448
5	.152	-.138	-.377	.380	.600	.382	.134
6	.092	.033	-.008	.028	.086	.307	.196
7	-.050	-.481	-.966	.279	.490	.218	-.001
8	-.932	-1.577	-1.591	-.595	-.595	-.793	-.813
9	-1.579	-2.317	-2.517	-1.494	-1.846	-1.847	-1.608
10	-1.158	-1.733	-1.865	-1.444	-1.579	-1.536	-1.342
11	-.893	-1.361	.000.000	-1.237	-1.379	-1.167	-1.032
12	-1.541	-1.079	-1.075	-1.010	-1.081	-.892	-.803
13	-.919	-1.029	-1.075	-.804	-.846	-.740	-.674
14	-1.161	-.946	-1.018	-.731	-.713	-.659	-.571
15	-.603	-.213	-.379	-.111	-.103	-.116	-.082
16	-2.094	-1.475	-2.158	-1.182	-1.176	-1.492	-1.019
17	-2.792	-3.468	-2.906	-1.817	-1.472	-1.508	-1.305
18	-3.156	-2.218	-3.249	-1.858	-2.304	-2.488	-1.704
19	-3.013	-1.778	-3.141	-1.647	-1.144	-1.482	-1.257
20	-2.263	-.749	-2.063	-.749	-.422	-.973	-.860
21	-1.555	-1.041	-1.625	-.342	-.344	-.361	-.297
22	-1.158	-.664	-.984	-.334	-.276	-.307	-.268
23	-.436	-.731	-.544	-.344	-.271	-.324	-.303
24	-.886	-.592	-.394	-.276	-.228	-.249	-.292
25	.424	.682	.434	.023	.252	.306	.318
26	.029	.007	-.010	.078	.000.000	.146	.096
27	-.074	.019	.488	-.011	.078	.152	.118
28	.230	.749	.539	.176	.140	.169	.245
29	.223	.574	.524	.389	.260	.229	.237
30	.173	.904	.527	.401	.362	.422	.143
31	.600	1.151	.933	.600	.483	.416	.206
32	.760	1.012	.745	.735	.526	.658	.608
33	.576	.794	.613	.623	.640	.980	.813

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.941	.870	-.093	.623	1.170	1.157	.905
2	.656	.342	-.616	.604	1.220	1.115	.640
3	.483	.012	-.875	.480	1.048	.925	.465
4	.217	-.334	-1.002	.368	.766	.568	.065
5	-.022	-.582	-.869	.130	.290	.073	-.188
6	.074	.137	.008	.093	.137	.191	-.103
7	-.381	-.971	-1.496	.090	-.120	-.267	-.381
8	-1.334	-2.324	-2.204	-1.034	-1.223	-1.329	-1.305
9	-2.007	-3.031	-3.351	-2.217	-2.620	-2.577	-2.228
10	-1.382	-2.105	-2.213	-1.808	-1.998	-1.894	-1.617
11	-1.096	-1.579	.000.000	-1.464	-1.667	-1.437	-1.239
12	-1.558	-1.099	-1.045	-.978	-1.124	-.968	-.852
13	-1.141	-1.127	-1.013	-.843	-.939	-.878	-.735
14	-1.648	-1.308	-1.119	-.889	-1.005	-.891	-.721
15	-.993	-.328	-.337	-.102	-.104	-.149	-.100
16	-2.679	-1.662	-2.029	-1.599	-1.569	-1.599	-1.022
17	-3.483	-5.264	-2.784	-2.278	-2.297	-2.073	-1.525
18	-3.797	-3.421	-2.707	-2.382	-1.908	-2.433	-1.806
19	-3.429	-3.449	-2.912	-2.406	-1.955	-2.190	-1.625
20	-3.028	-2.788	-2.279	-1.462	-.645	-1.147	-1.191
21	-2.571	-2.389	-1.583	-.576	-.477	-.781	-.823
22	-1.773	-1.580	-.920	-.494	-.418	-.488	-.477
23	-1.149	-1.182	-.798	-.353	-.344	-.409	-.370
24	-1.266	-.366	-.227	-.341	-.322	-.362	-.321
25	.669	.944	.566	.463	.591	.595	.604
26	.052	-.271	.121	.012	.000.000	.118	.098
27	.043	.119	.806	.066	.124	.129	.056
28	.265	.805	.607	.478	.117	.126	.321
29	.217	.628	.609	.701	.597	.578	.445
30	.006	.843	.707	.786	.678	.671	.098
31	.501	1.060	.939	.975	.759	.773	.261
32	.631	1.007	.850	1.097	.950	.837	.953
33	.442	.773	.599	.918	.893	.710	.509

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.609	.532	-.619	.831	1.272	1.290	.575
2	.552	-.233	-1.442	.645	1.176	1.066	.304
3	.312	-.474	-1.538	.346	.842	.772	-.051
4	.004	-.975	-1.759	.047	.447	.262	-.425
5	-.148	-1.096	-1.589	-.153	-.037	-.197	-.832
6	.143	.140	.008	.089	.082	.091	-.098
7	-.724	-1.456	-2.155	-.501	-.458	-.455	-.728
8	-1.662	-2.752	-2.710	-1.455	-1.552	-1.520	-1.617
9	-1.930	-3.166	-3.667	-2.527	-2.818	-2.730	-2.414
10	-1.500	-2.381	-2.592	-2.216	-2.292	-2.076	-1.887
11	-1.148	-1.719	.000.000	-1.664	-1.848	-1.471	-1.359
12	-1.667	-1.261	-1.115	-1.217	-1.373	-1.067	-1.074
13	-1.368	-1.316	-1.056	-.984	-1.153	-.935	-.925
14	-1.448	-1.316	-1.040	-.980	-1.087	-.867	-.795
15	-1.231	-.483	-.342	-.099	-.193	-.137	-.092
16	-3.343	-2.229	-2.051	-2.056	-2.366	-2.252	-1.432
17	-4.294	-5.505	-2.575	-2.548	-2.685	-2.468	-1.828
18	-4.530	-3.900	-2.687	-3.246	-2.964	-3.153	-2.293
19	-4.320	-3.855	-2.700	-2.928	-2.649	-2.489	-1.801
20	-3.133	-3.038	-1.583	-2.126	-1.796	-1.655	-1.556
21	-2.444	-2.233	-1.151	-1.228	-.764	-.843	-1.074
22	-1.932	-1.420	-.604	-.567	-.409	-.372	-.651
23	-1.589	-.825	-.472	-.466	-.363	-.365	-.481
24	-1.708	-.351	-.313	-.421	-.343	-.364	-.517
25	.476	1.090	.564	.755	.853	.693	.662
26	.175	-.300	.202	-.273	.000.000	.151	-.036
27	.236	.744	.850	.322	.149	.180	.033
28	.595	.739	.752	.797	.235	.281	.422
29	.173	.606	.651	.735	.756	.748	.421
30	-.006	.764	.718	.883	.821	.842	.141
31	.436	1.008	.982	1.190	1.129	1.076	.303
32	.585	1.044	.849	1.173	1.163	1.218	.854
33	.447	.734	.616	.892	.849	.823	.439

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.797	.028	-1.414	.854	1.355	1.435	-.147
2	.208	-.887	-2.240	.413	.805	.750	-.477
3	.054	-1.169	-2.455	.086	.520	.502	-.689
4	-.200	-1.499	-2.486	-.141	.104	-.031	-1.008
5	-.292	-1.407	-1.945	-.358	-.320	-.473	-.992
6	.122	.113	-.051	.110	.014	-.074	-.237
7	-.913	-1.762	-2.512	-.804	-.679	-.604	-1.040
8	-1.998	-3.272	-3.352	-1.937	-1.998	-1.936	-2.230
9	-2.228	-3.611	-4.270	-3.088	-3.404	-3.144	-2.883
10	-1.682	-2.575	-2.894	-2.489	-2.650	-2.313	-2.033
11	-1.260	-1.799	.000.000	-1.822	-2.062	-1.603	-1.424
12	-1.785	-1.301	-1.197	-1.285	-1.447	-1.047	-1.051
13	-1.562	-1.292	-1.077	-.968	-1.201	-.806	-.787
14	-2.366	-1.440	-1.145	-1.081	-1.322	-.933	-.872
15	-1.471	-.470	-.300	-.041	-.236	-.095	-.084
16	-3.241	-2.210	-2.132	-2.176	-2.495	-2.087	-1.421
17	-3.475	-5.435	-2.595	-2.839	-3.308	-2.425	-1.949
18	-3.654	-3.701	-2.670	-2.927	-3.501	-2.715	-2.420
19	-2.884	-3.927	-2.661	-2.947	-3.293	-2.580	-2.183
20	-2.206	-2.930	-1.784	-2.084	-1.858	-2.059	-2.038
21	-2.515	-2.518	-1.003	-1.036	-.646	-1.382	-1.500
22	-2.200	-1.500	-.590	-.526	-.628	-.691	-1.095
23	-1.431	-.887	-.466	-.429	-.352	-.373	-.644
24	-1.558	-.520	-.418	-.468	-.350	-.394	-.481
25	.884	1.004	.442	1.079	.988	1.043	.256
26	-.163	.041	.497	-.236	.000.000	.164	-.007
27	.354	.971	.948	.496	.079	.178	.091
28	.494	.796	.794	.905	.934	.501	.469
29	.106	.631	.654	.816	.766	.700	.368
30	-.149	.748	.746	.963	.833	.771	.025
31	.287	.995	.936	1.204	1.263	1.202	.173
32	.497	.940	.881	1.197	1.237	1.181	.662
33	.463	.778	.669	.934	.995	.793	.169

$\alpha = 30°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.666	-.554	-2.098	.820	1.232	1.237	-.884
2	-.013	-1.772	-3.295	.091	.628	.553	-1.224
3	-.171	-2.007	-3.478	-.142	.295	.211	-1.263
4	-.457	-2.210	-3.311	-.550	-.172	-.319	-1.359
5	-.681	-2.038	-2.563	-.649	-.564	-.747	-1.273
6	.156	.066	-.083	.084	.089	-.189	-.130
7	-1.079	-2.204	-3.097	-1.219	-.867	-.810	-1.310
8	-2.170	-3.632	-3.682	-2.398	-2.212	-1.981	-2.135
9	-2.380	-3.924	-4.590	-3.608	-3.697	-3.201	-2.739
10	-1.779	-2.800	-3.056	-2.818	-2.755	-2.195	-1.830
11	-1.323	-1.911	.000.000	-2.002	-2.102	-1.429	-1.261
12	-1.779	-1.387	-1.295	-1.376	-1.410	-.885	-.854
13	-1.467	-1.526	-1.199	-1.139	-1.314	-.841	-.869
14	-2.364	-1.532	-1.204	-1.183	-1.271	-.887	-.739
15	-1.735	-.604	-.355	-.131	-.298	-.239	-.185
16	-3.315	-2.402	-2.192	-2.270	-2.737	-2.282	-1.504
17	-3.351	-6.079	-2.887	-3.404	-3.575	-2.656	-2.111
18	-3.390	-4.014	-2.884	-3.151	-3.733	-2.897	-2.294
19	-3.004	-3.942	-2.700	-3.451	-3.558	-3.014	-2.292
20	-2.533	-3.374	-2.111	-2.452	-2.280	-2.426	-2.059
21	-2.302	-2.422	-1.230	-.920	-1.612	-1.561	-1.607
22	-2.131	-1.410	-.883	-.597	-.568	-1.182	-1.277
23	-1.920	-.749	-.516	-.466	-.466	-.435	-.714
24	-1.637	-.523	-.436	-.437	-.386	-.350	-.373
25	.918	.802	.164	1.093	1.133	1.066	-.128
26	-.017	.582	.568	-.163	.000.000	.114	.109
27	.803	1.042	1.047	.975	.029	.154	.251
28	.486	.741	.825	.892	1.130	.658	.345
29	.076	.488	.772	.802	.800	.637	.394
30	-.307	.822	.802	.998	.939	.871	-.144
31	.233	1.048	.917	1.275	1.328	1.232	.111
32	.464	1.010	.883	1.213	1.308	1.178	.555
33	.445	.754	.706	.945	.983	.713	.163

Table 31. - Continued.

(c) $C_{T,S} = 0.60$, $q_S = 21.78$

$\alpha = 35°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.458	-1.140	-2.779	.690	1.116	1.141	-1.274
2	-.344	-2.440	-4.228	-.237	.211	.326	-1.652
3	-.535	-2.861	-4.418	-.461	-.018	.033	-1.511
4	-.761	-2.706	-3.879	-.739	-.368	-.411	-1.497
5	-1.263	-2.277	-2.749	-.803	-.738	-.780	-1.360
6	.222	-.012	-.145	.101	.024	-.125	-.089
7	-1.299	-2.454	-3.245	-1.426	-1.082	-.723	-1.256
8	-2.453	-3.861	-3.829	-2.567	-2.288	-1.787	-1.967
9	-2.391	-3.887	-4.342	-3.496	-3.367	-2.473	-2.161
10	-1.969	-2.973	-3.032	-3.059	-2.834	-1.790	-1.471
11	-1.351	-1.893	.000.000	-2.023	-1.961	-.991	-.967
12	-1.655	-1.892	-1.195	-1.365	-1.378	-.689	-.783
13	-1.421	-1.602	-1.131	-1.132	-1.172	-.655	-.728
14	-2.150	-1.448	-1.127	-1.134	-1.197	-.671	-.629
15	-1.427	-.513	-.296	-.107	-.240	-.074	-.150
16	-2.643	-2.327	-2.236	-2.389	-2.699	-2.132	-1.399
17	-3.117	-5.732	-2.526	-3.337	-3.328	-2.318	-1.806
18	-3.239	-3.877	-2.730	-3.462	-3.698	-3.100	-2.427
19	-2.914	-3.858	-2.559	-3.761	-3.569	-2.796	-2.080
20	-2.418	-3.116	-2.107	-2.605	-2.588	-2.268	-1.929
21	-2.266	-2.228	-1.474	-1.287	-1.767	-1.629	-1.447
22	-2.124	-1.431	-.942	-.827	-.759	-1.160	-1.349
23	-1.778	-.591	-.481	-.547	-.512	-.368	-.915
24	-1.461	-.579	-.540	-.416	-.509	-.434	-.546
25	.953	.615	-.224	1.192	1.213	1.107	-.275
26	.071	.678	.576	-.146	.000.000	.238	.221
27	.425	1.043	.972	1.070	.095	.286	.353
28	.479	.947	.865	.912	1.031	.852	.331
29	.082	.703	.728	.817	.774	.640	.317
30	-.293	.892	.899	1.015	.874	.952	-.100
31	.250	1.053	.957	1.292	1.342	1.307	.135
32	.452	1.051	.893	1.201	1.229	1.197	.449
33	.421	.731	.628	.979	.962	.764	.183

$\alpha = 40°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	.115	-1.837	-3.447	.594	1.018	.976	-1.677
2	-.746	-3.147	-4.779	-.450	.100	-.063	-1.922
3	-1.026	-3.474	-4.728	-.680	-.313	-.318	-1.676
4	-1.197	-3.280	-4.345	-.951	-.631	-.764	-1.498
5	-1.816	-2.937	-3.349	-1.243	-1.060	-.944	-1.358
6	.236	-.087	-.232	.104	.030	-.108	-.188
7	-1.696	-2.803	-3.618	-1.683	-1.215	-.797	-1.383
8	-2.871	-4.531	-4.330	-3.110	-2.700	-1.864	-1.969
9	-2.717	-4.272	-4.643	-3.868	-3.606	-2.444	-1.908
10	-2.077	-3.071	-3.951	-3.260	-2.886	-1.804	-1.311
11	-1.573	-2.031	.000.000	-2.121	-1.959	-.884	-.784
12	-1.784	-1.517	-1.285	-1.478	-1.389	-.661	-.741
13	-1.907	-1.420	-1.187	-1.146	-1.024	-.572	-.665
14	-1.903	-1.499	-1.233	-1.232	-1.232	-.703	-.694
15	-1.827	-.650	-.346	-.245	-.300	-.106	-.224
16	-2.735	-2.381	-2.058	-2.458	-2.466	-1.675	-1.239
17	-3.074	-5.555	-2.490	-3.286	-3.093	-2.261	-1.839
18	-3.343	-3.533	-2.643	-3.594	-3.852	-2.827	-2.135
19	-2.927	-3.357	-2.602	-3.582	-3.391	-2.283	-1.760
20	-2.124	-2.784	-1.922	-3.066	-2.912	-2.367	-1.833
21	-1.974	-2.083	-1.471	-1.833	-2.336	-1.726	-1.463
22	-1.857	-1.233	-.931	-.725	-1.444	-1.298	-1.175
23	-1.511	-.588	-.467	-.457	-.515	-.308	-.878
24	-1.272	-.584	-.423	-.449	-.416	-.241	-.533
25	.942	.338	-1.374	1.297	1.303	1.069	-.894
26	.104	.774	.452	-.206	.000.000	.208	.177
27	.440	1.055	.884	1.152	.208	.314	.361
28	.438	.874	.845	.939	.952	.667	.375
29	.017	.695	.758	.777	.670	.560	.337
30	-.342	.856	.826	.999	.836	.848	-.113
31	.271	1.155	.976	1.279	1.312	1.249	.029
32	.464	1.014	.819	1.245	1.194	1.098	.451
33	.461	.863	.747	1.062	.955	.755	.019

$\alpha = 45°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	-.396	-2.579	-4.749	.271	.825	.398	-2.296
2	-1.339	-3.940	-5.664	-.780	-.077	-.378	-2.242
3	-1.689	-4.526	-5.798	-1.113	-.615	-.870	-2.322
4	-1.773	-3.978	-5.080	-1.321	-.936	-1.106	-1.673
5	-2.294	-3.243	-3.687	-1.422	-1.170	-1.183	-1.217
6	.208	-.137	-.282	.105	-.008	-.175	-.270
7	-1.670	-2.727	-3.377	-1.520	-1.106	-.724	-1.214
8	-3.005	-4.471	-3.963	-2.955	-2.379	-1.525	-1.397
9	-3.174	-4.728	-4.909	-4.396	-3.922	-2.534	-1.717
10	-2.183	-3.180	-2.933	-3.292	-2.738	-1.463	-.930
11	-1.505	-1.900	.000.000	-1.966	-1.763	-.695	-.593
12	-1.500	-1.283	-1.119	-1.235	-1.004	-.454	-.561
13	-1.322	-1.207	-1.078	-1.052	-.853	-.475	-.460
14	-1.637	-1.300	-1.146	-1.095	-.833	-.504	-.573
15	-1.147	-.529	-.224	-.161	-.098	.036	-.310
16	-1.787	-2.133	-1.990	-2.521	-2.205	-1.987	-1.396
17	-2.396	-4.686	-2.441	-3.169	-2.672	-2.604	-1.377
18	-2.108	-3.007	-2.708	-3.777	-3.191	-2.905	-2.161
19	-2.665	-3.196	-2.705	-3.766	-3.291	-2.333	-1.656
20	-1.936	-2.386	-1.915	-2.871	-2.870	-1.926	-1.501
21	-1.729	-1.668	-1.603	-2.130	-2.404	-1.747	-1.553
22	-1.633	-1.041	-.858	-.902	-1.475	-1.302	-1.171
23	-1.111	-.577	-.499	-.303	-.545	-.464	-.889
24	-1.031	-.486	-.451	-.456	-.099	-.166	-.371
25	.817	.112	-1.358	1.275	1.355	.599	-1.210
26	.124	.815	.693	-.014	.000.000	.293	.196
27	.689	1.049	.870	1.257	.300	.416	.299
28	.306	.835	.749	.879	.934	.463	.276
29	-.037	.736	.711	.853	.729	.471	.264
30	-.296	.947	.875	1.021	.842	.802	-.103
31	.338	1.181	.926	1.264	1.288	1.165	-.010
32	.545	.987	.942	1.343	1.270	1.166	.478
33	.410	.843	.724	1.049	.948	.699	.030

$\alpha = 50°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	-.747	-3.518	-5.542	.092	.803	-.653	-2.619
2	-1.692	-4.812	-6.037	-.988	-.282	-1.164	-2.203
3	-1.788	-4.631	-5.444	-1.190	-.656	-.933	-1.273
4	-2.120	-4.473	-5.117	-1.587	-1.088	-1.198	-1.272
5	-2.708	-3.637	-3.756	-1.557	-1.329	-1.240	-1.276
6	.042	-.262	-.406	.070	-.029	-.360	-.490
7	-1.912	-3.030	-3.541	-1.835	-1.188	-.706	-1.196
8	-3.347	-4.946	-4.051	-3.483	-2.747	-1.794	-1.620
9	-3.222	-4.764	-4.573	-4.337	-3.850	-2.078	-1.068
10	-2.366	-3.312	-2.757	-3.307	-2.746	-1.341	-.762
11	-1.724	-2.045	.000.000	-2.114	-1.826	-.703	-.542
12	-1.663	-1.413	-1.268	-1.443	-1.192	-.523	-.593
13	-1.490	-1.356	-1.293	-1.222	-1.045	-.522	-.502
14	-1.217	-1.231	-1.243	-1.188	-1.055	-.593	-.587
15	-1.232	-.591	-.336	-.230	-.262	-.195	-.271
16	-1.882	-2.168	-2.172	-2.761	-2.435	-1.782	-1.051
17	-2.696	-4.174	-2.581	-3.326	-3.295	-1.245	-.781
18	-3.039	-2.752	-2.897	-3.773	-3.259	-2.664	-1.707
19	-2.663	-2.550	-2.721	-3.986	-3.408	-1.972	-1.526
20	-2.187	-2.081	-2.135	-3.155	-3.191	-2.164	-1.654
21	-1.614	-1.474	-1.511	-2.087	-2.481	-1.374	-1.172
22	-1.512	-1.154	-1.095	-.955	-1.591	-1.270	-1.252
23	-1.095	-.594	-.439	-.443	-.508	-.487	-.746
24	-.816	-.497	-.454	-.475	-.210	-.312	-.428
25	.204	-.349	-2.065	1.273	1.431	.140	-1.495
26	.029	.756	.643	.136	.000.000	.266	.093
27	.356	.995	.680	1.197	.533	.315	.319
28	.231	.793	.767	.865	.963	.375	.255
29	-.126	.592	.717	.817	.695	.501	.380
30	-.235	.845	.747	.997	.771	.839	-.049
31	.424	1.103	.947	1.412	1.366	1.200	.053
32	.346	.787	.877	1.287	1.178	1.069	.477
33	.246	.421	.849	1.039	.869	.591	.206

$\alpha = 55°$

	WING STATIONS						
TUBE NO	1	2	3	4	5	6	7
1	-1.919	-4.616	-5.719	-.196	.504	-1.095	-2.517
2	-2.392	-4.005	-6.783	-1.179	-.544	-1.180	-1.558
3	-2.485	-4.061	-6.555	-1.649	-1.190	-1.607	-1.638
4	-2.589	-5.490	-6.069	-2.056	-1.575	-1.689	-1.451
5	-3.247	-4.204	-4.066	-1.817	-1.509	-1.342	-1.327
6	-.362	-.400	-.578	.144	-.058	-.467	-.540
7	-2.165	-3.400	-3.874	-2.031	-1.422	-.834	-1.206
8	-3.402	-5.335	-4.272	-3.680	-2.974	-1.652	-1.358
9	-2.928	-4.912	-4.504	-4.441	-3.932	-2.039	-.981
10	-2.287	-3.423	-2.896	-3.395	-2.879	-1.218	-.691
11	-1.750	-2.034	.000.000	-2.080	-1.901	-.757	-.609
12	-1.642	-1.246	-1.283	-1.335	-1.229	-.524	-.468
13	-1.487	-1.203	-1.289	-1.038	-1.003	-.540	-.456
14	-1.149	-1.146	-1.285	-1.097	-1.009	-.556	-.510
15	-.906	-.474	-.396	-.247	-.168	-.155	-.210
16	-1.973	-1.808	-2.135	-2.476	-2.153	-1.770	-1.162
17	-2.803	-3.398	-2.858	-3.265	-2.795	-1.685	-1.187
18	-2.196	-2.255	-2.843	-3.508	-2.940	-2.076	-1.467
19	-1.426	-2.172	-2.645	-3.205	-3.273	-2.156	-1.701
20	-1.341	-1.714	-2.108	-2.819	-2.638	-1.249	-1.167
21	-1.299	-1.262	-1.464	-1.482	-1.942	-1.167	-1.060
22	-1.073	-.704	-.805	-.792	-1.401	-.866	-.944
23	-.917	-.526	-.468	-.387	-.513	-.466	-.525
24	-.654	-.460	-.446	-.330	-.450	-.240	-.342
25	-.292	-.437	-3.289	1.147	1.412	-.529	-1.748
26	-.560	.646	.555	.231	.000.000	.292	.065
27	.045	.885	.517	1.299	.520	.233	.269
28	.016	.655	.620	.967	.915	.352	.385
29	-.160	.437	.543	.698	.462	.368	.293
30	-.445	.736	.674	.899	.638	.635	-.084
31	.252	.813	.730	1.371	1.272	.879	.052
32	.247	.814	.958	1.247	1.225	.857	.342
33	.107	.321	.713	.908	.671	.465	.092

Table 31. - Continued.

(d) $C_{T,S} = 0.30$, $q_S = 19.18$

$\alpha = 5°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.901	1.086	.696	.519	.992	.877	.858
2	.915	1.066	.700	.645	1.209	1.032	.986
3	.797	.910	.606	.646	1.150	1.000	.844
4	.551	.547	.381	.484	.882	.692	.720
5	.267	.122	.078	.176	.522	.358	.342
6	-.047	-.187	-.184	.012	-.039	.114	-.137
7	-.021	.002	-.477	-.184	.369	.281	.220
8	-.924	-1.446	-1.518	-1.207	-1.027	-1.038	-1.082
9	-1.523	-2.241	-2.660	-2.274	-2.264	-2.117	-1.990
10	-1.268	-1.947	-2.252	-2.212	-2.059	-2.091	-1.990
11	-1.079	-1.581	.000.000	-1.682	-1.716	-1.612	-1.397
12	-1.617	-1.094	-1.112	-1.048	-1.157	-1.056	-1.029
13	-.745	-.998	-1.001	-.798	-.867	-.915	-.769
14	-.998	-1.024	-1.110	-.746	-.772	-.861	-.773
15	-.570	.325	-.394	.018	-.166	-.261	-.322
16	-1.417	-1.239	-1.472	-.970	-1.090	-1.289	-1.133
17	-2.527	-3.122	-3.195	-1.372	-1.379	-1.777	-1.560
18	-2.556	-3.047	-3.195	-1.368	-1.494	-1.601	-1.358
19	-2.602	-2.138	-2.579	-1.185	-1.294	-1.286	-1.183
20	-2.001	-1.426	-1.799	-.549	-.505	-.821	-.747
21	-1.607	-.861	-1.333	-.370	-.413	-.527	-.367
22	-.996	-.718	-.976	-.418	-.371	-.502	-.393
23	-.713	-.659	-.585	-.371	-.328	-.444	-.409
24	-.684	-.687	-.507	-.400	-.279	-.392	-.363
25	.076	.307	.073	.092	.113	-.058	.018
26	-.118	-.093	-.141	.003	.000.000	-.201	-.227
27	-.196	-.106	-.188	.021	-.019	-.190	-.202
28	-.060	-.158	-.018	-.002	-.094	-.175	-.102
29	.115	.455	.386	.151	.100	.109	.174
30	-.282	.682	.570	.286	.203	.192	.060
31	.320	.906	.877	.222	.192	.173	.192
32	.777	1.009	.925	.265	.310	.266	.613
33	.668	.780	.623	.215	.512	.585	.613

$\alpha = 10°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.886	1.071	.664	.755	1.202	1.135	1.054
2	.709	.781	.324	.627	1.175	1.071	.914
3	.550	.489	.129	.492	1.003	.871	.743
4	.231	.108	-.119	.239	.606	.455	.367
5	.033	-.276	-.414	-.054	.132	-.088	-.229
6	.054	-.093	-.178	.061	.063	.093	-.131
7	-.260	-.766	-1.398	-.624	-.377	-.454	-.438
8	-1.194	-1.817	-2.002	-1.525	-1.417	-1.392	-1.346
9	-1.887	-2.793	-3.408	-2.853	-3.018	-2.759	-2.597
10	-1.532	-2.266	-2.651	-2.456	-2.491	-2.349	-2.192
11	-1.247	-1.838	.000.000	-1.992	-2.131	-1.873	-1.752
12	-1.965	-1.359	-1.339	-1.301	-1.516	-1.352	-1.198
13	-1.158	-1.290	-1.151	-.986	-1.146	-1.101	-.990
14	-1.543	-1.302	-1.112	-.887	-1.068	-1.020	-.906
15	-.929	.167	-.491	-.108	-.270	-.366	-.178
16	-2.513	-1.707	-2.218	-1.376	-1.600	-1.980	-1.484
17	-3.320	-5.168	-2.805	-1.934	-2.001	-2.118	-1.759
18	-3.419	-3.798	-3.709	-2.661	-2.226	-2.496	-2.098
19	-3.441	-3.829	-2.992	-1.640	-2.234	-2.492	-1.973
20	-2.571	-2.516	-1.947	-.899	-.911	-1.298	-1.288
21	-2.161	-1.743	-1.576	-.563	-.502	-.533	-.666
22	-1.575	-1.334	-.896	-.448	-.518	-.532	-.476
23	-1.317	-1.007	-.515	-.440	-.434	-.457	-.462
24	-1.235	-.525	-.414	-.361	-.355	-.452	-.460
25	.420	.712	.586	.491	.570	.483	.589
26	-.079	-.113	-.275	.071	.000.000	.024	.067
27	-.125	-.034	.302	.054	.080	.073	.078
28	.134	.385	.461	.306	.159	.231	.357
29	.147	.567	.459	.626	.535	.530	.540
30	.122	.870	.551	.676	.592	.557	.101
31	.541	1.104	.802	.779	.690	.755	.755
32	.638	.956	.491	.712	.764	.711	.831
33	.528	.810	.364	.780	.854	.851	.910

$\alpha = 15°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.941	.905	.181	.634	1.280	1.238	.911
2	.474	.040	-.601	.310	.998	.772	.503
3	.337	-.253	-.954	-.056	.514	.445	.098
4	.24	-.639	-1.140	-.344	.109	-.029	-.252
5	-.144	-.981	-1.317	-.674	-.417	-.584	-.729
6	-.124	-.019	-.151	.106	.002	-.124	-.119
7	-.916	-1.334	-2.035	-1.300	-1.897	-.922	-1.047
8	-1.531	-2.556	-2.649	-2.313	-2.117	-2.068	-2.133
9	-2.184	-3.448	-4.146	-3.770	-3.812	-3.537	-3.465
10	-1.505	-2.392	-2.761	-2.850	-2.814	-2.564	-2.508
11	-1.165	-1.801	.000.000	-2.063	-2.297	-1.983	-1.927
12	-1.970	-1.356	-1.297	-1.426	-1.656	-1.405	-1.412
13	-1.254	-1.292	-1.118	-1.086	-1.296	-1.156	-1.135
14	-1.794	-1.332	-1.100	-1.085	-1.291	-1.126	-1.052
15	-1.035	.045	-.295	-.156	-.373	-.303	-.164
16	-2.757	-1.873	-1.748	-1.968	-2.254	-2.265	-1.561
17	-2.966	-5.076	-2.651	-2.640	-2.686	-2.210	-2.140
18	-4.156	-3.456	-2.872	-3.183	-3.333	-2.824	-2.558
19	-2.863	-3.367	-2.595	-3.018	-2.618	-2.424	-2.317
20	-2.165	-3.017	-1.680	-1.965	-1.917	-1.667	-1.847
21	-1.479	-1.887	-1.073	-1.244	-1.114	-1.084	-1.276
22	-1.655	-1.164	-.466	-.613	-.534	-.469	-.711
23	-1.470	-.797	-.430	-.428	-.436	-.490	-.460
24	-1.393	-.720	-.324	-.390	-.344	-.396	-.543
25	.680	.873	.660	.744	.840	.871	.760
26	.103	-.409	.088	-.262	.000.000	.170	.082
27	.201	.152	.654	.414	.176	.147	.232
28	.350	.655	.609	.697	.403	.797	.573
29	.219	.560	.614	.704	.786	.767	.551
30	.102	.791	.779	.899	.816	.868	-.068
31	.470	.979	.919	1.147	1.096	1.083	.509
32	.575	.988	.834	1.102	1.125	1.074	1.014
33	.474	.731	.561	.824	.896	.784	.499

$\alpha = 20°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.624	.423	-.732	.383	1.150	.979	.131
2	.258	-.666	-1.861	-.408	.412	.186	-.435
3	.027	-1.038	-2.274	-.838	-.206	-.286	-.844
4	-.026	-1.186	-1.975	-.974	-.494	-.764	-1.146
5	-.243	-1.339	-1.808	-1.186	-.910	-1.064	-1.229
6	.139	.045	-.132	-.116	-.013	-.335	-.108
7	-.837	-1.743	-2.619	-1.696	-1.273	-1.371	-1.597
8	-1.811	-3.234	-3.457	-3.071	-2.747	-2.706	-2.875
9	-2.257	-3.786	-4.765	-4.375	-4.313	-4.005	-3.929
10	-1.710	-2.717	-3.164	-3.403	-3.338	-3.096	-3.009
11	-1.140	-1.937	.000.000	-2.349	-2.586	-2.239	-2.226
12	-1.951	-1.282	-1.305	-1.413	-1.664	-1.415	-1.437
13	-1.741	-1.472	-1.360	-1.327	-1.559	-1.404	-1.351
14	-2.050	-1.431	-1.244	-1.306	-1.546	-1.375	-1.242
15	-1.212	.020	-.200	-.217	-.323	-.318	-.235
16	-2.737	-1.951	-2.070	-2.249	-2.598	-2.434	-1.641
17	-3.032	-5.158	-2.554	-2.906	-3.264	-2.877	-2.273
18	-2.590	-3.490	-2.960	-3.089	-3.231	-3.266	-2.510
19	-2.486	-3.679	-2.852	-3.346	-3.628	-3.444	-2.501
20	-2.072	-2.745	-1.842	-2.207	-2.061	-2.242	-2.005
21	-2.011	-1.858	-.991	-1.444	-1.203	-1.262	-1.405
22	-1.758	-1.131	-.671	-.642	-.587	-.461	-.834
23	-1.648	-.866	-.551	-.544	-.476	-.428	-.764
24	-1.332	-.704	-.554	-.498	-.400	-.420	-.486
25	.884	1.050	.528	.987	1.250	1.200	.689
26	.059	-.241	.181	-.044	.000.000	-.308	.136
27	.308	.496	.839	.816	.209	.430	.606
28	.596	.807	.774	.886	1.100	.949	.696
29	.288	.743	.758	.887	.885	.866	.632
30	-.040	.769	.778	.992	.897	.907	-.106
31	.339	.952	.859	1.229	1.182	1.153	.744
32	.572	.982	.880	1.226	1.205	1.118	.862
33	.633	.894	.830	1.054	1.054	.953	.498

$\alpha = 25°$

TUBE NO	WING STATIONS 1	2	3	4	5	6	7
1	.432	-.477	-1.645	-.060	.840	.735	-.604
2	-.143	-1.668	-3.110	-1.147	-.132	-.367	-1.461
3	-.290	-1.978	-3.353	-1.506	-.745	-.803	-1.742
4	-.443	-2.154	-3.221	-1.707	-1.091	-1.386	-1.898
5	-.434	-2.156	-2.845	-1.934	-1.609	-1.831	-2.167
6	.090	.044	-.195	-.057	.035	-.596	-.284
7	-1.247	-2.452	-3.581	-2.250	-1.934	-1.914	-2.210
8	-2.320	-3.977	-4.239	-3.814	-3.482	-3.454	-3.571
9	-2.614	-4.393	-5.430	-5.069	-5.229	-4.825	-4.677
10	-1.936	-3.250	-3.797	-4.010	-4.024	-3.616	-3.495
11	-1.392	-2.216	.000.000	-2.514	-2.889	-2.524	-2.484
12	-2.310	-1.596	-1.547	-1.626	-1.898	-1.671	-1.641
13	-2.424	-1.654	-1.414	-1.387	-1.588	-1.479	-1.441
14	-2.405	-1.614	-1.300	-1.252	-1.446	-1.227	-1.116
15	-1.724	-.845	-.332	-.254	-.434	-.377	-.065
16	-3.088	-2.186	-2.415	-2.556	-2.874	-2.726	-1.932
17	-2.799	-5.839	-2.928	-3.078	-3.449	-2.756	-2.157
18	-2.864	-4.038	-3.206	-3.419	-3.691	-3.313	-2.651
19	-2.388	-3.772	-2.822	-2.974	-3.233	-2.808	-2.287
20	-2.326	-2.900	-2.010	-2.483	-2.241	-2.618	-2.295
21	-2.367	-2.344	-1.368	-1.627	-1.030	-1.230	-1.446
22	-1.938	-1.435	-.864	-.738	-.435	-.701	-.958
23	-1.683	-.935	-.517	-.641	-.314	-.384	-.620
24	-1.541	-.778	-.573	-.538	-.394	-.353	-.791
25	.844	.799	.111	1.016	1.351	1.279	.363
26	.121	.327	.401	.242	.000.000	-.331	.321
27	.819	.987	.887	1.120	.787	.790	.627
28	.545	.878	.860	1.090	1.195	.985	.641
29	.114	.731	.808	.971	1.007	.863	.633
30	-.320	.898	.908	1.147	1.095	1.067	-.077
31	.337	1.081	1.022	1.406	1.432	1.322	.472
32	.543	1.037	.931	1.379	1.370	1.289	.861
33	.521	.794	.674	1.087	1.157	.892	.378

Table 31. - Concluded.

(d) $C_{T,S} = 0.30$, $q_s = 19.18$

$\alpha = 30°$

	WING STATIONS						
TUNE NO	1	2	3	4	5	6	7
1	.116	-1.482	-3.473	-.031	.495	.496	-1.705
2	-.882	-2.997	-4.676	-1.592	-.878	-.896	-2.486
3	-.828	-3.212	-4.720	-2.110	-1.439	-1.419	-2.585
4	-1.174	-3.311	-4.638	-2.258	-1.764	-1.678	-2.334
5	-1.714	-2.882	-3.568	-2.165	-1.929	-1.840	-2.127
6	.142	-.139	-.371	.093	.040	-.535	-.350
7	-1.493	-2.770	-3.863	-2.398	-1.953	-1.719	-2.102
8	-2.901	-4.705	-4.937	-4.352	-4.128	-3.664	-3.779
9	-3.146	-5.063	-6.070	-5.679	-5.760	-4.878	-4.603
10	-2.210	-3.665	-3.965	-4.087	-4.076	-3.264	-2.955
11	-1.445	-2.234	.000.000	-2.445	-2.641	-1.881	-1.742
12	-2.414	-1.699	-1.616	-1.627	-1.854	-1.365	-1.297
13	-2.498	-1.655	-1.400	-1.366	-1.549	-1.034	-.955
14	-2.111	-1.673	-1.358	-1.367	-1.585	-1.092	-.906
15	-1.779	-.185	-.386	-.266	-.320	-.264	-.126
16	-2.519	-2.161	-2.332	-2.638	-3.134	-2.318	-1.502
17	-2.457	-6.305	-3.142	-3.431	-3.899	-2.693	-2.148
18	-2.929	-4.302	-3.373	-3.744	-4.133	-3.236	-2.536
19	-2.594	-4.202	-3.132	-3.306	-4.141	-2.849	-2.286
20	-2.360	-3.363	-2.242	-2.481	-2.584	-1.706	-1.802
21	-2.543	-2.673	-1.726	-1.953	-1.628	-2.299	-1.895
22	-2.392	-1.865	-1.010	-1.200	-.925	-.972	-1.258
23	-1.462	-1.033	-.559	-.497	-.403	-.393	-.625
24	-1.099	-.807	-.566	-.539	-.495	-.492	-.641
25	.873	.397	-.999	1.350	1.532	1.464	-.047
26	.151	.746	.587	.216	.000.000	-.263	.432
27	.794	.970	.733	1.459	1.297	.848	.685
28	.522	.880	.852	1.196	1.167	.967	.667
29	.124	.719	.859	.934	.947	.829	.637
30	-.368	.796	.872	1.128	1.003	1.020	-.121
31	.249	1.100	1.027	1.590	1.512	1.517	.491
32	.441	.983	.917	1.410	1.419	1.349	.873
33	.422	.713	.756	1.120	1.100	.908	.403

$\alpha = 35°$

	WING STATIONS						
TUNE NO	1	2	3	4	5	6	7
1	-.298	-3.012	-5.338	-.785	-.043	.080	-2.725
2	-1.058	-3.955	-5.722	-2.199	-1.291	-1.271	-2.966
3	-1.248	-4.208	-5.723	-2.673	-2.031	-1.744	-3.014
4	-1.649	-4.198	-5.558	-2.884	-2.421	-2.394	-3.062
5	-2.267	-3.261	-3.945	-2.474	-2.074	-1.958	-2.003
6	.225	-.229	-.434	.010	-.004	-.526	-.441
7	-1.630	-3.171	-4.356	-2.757	-2.254	-1.798	-2.352
8	-2.910	-4.828	-4.930	-4.365	-3.932	-3.103	-3.271
9	-3.228	-5.211	-6.232	-5.786	-5.586	-4.429	-4.036
10	-2.306	-3.579	-3.930	-4.143	-3.913	-3.014	-2.652
11	-1.720	-2.571	.000.000	-2.782	-3.010	-2.022	-1.829
12	-2.438	-1.744	-1.662	-1.690	-1.759	-1.177	-1.150
13	-2.174	-1.746	-1.527	-1.419	-1.529	-.934	-.891
14	-1.943	-1.696	-1.377	-1.314	-1.534	-.974	-.861
15	-1.602	-.284	-.442	-.372	-.488	-.261	-.160
16	-2.615	-2.523	-2.641	-2.951	-3.600	-2.633	-1.742
17	-2.847	-6.466	-3.379	-3.444	-4.413	-2.735	-2.049
18	-2.944	-4.445	-3.479	-3.677	-4.533	-2.919	-2.452
19	-2.306	-4.003	-3.155	-3.514	-4.914	-3.085	-2.257
20	-2.432	-3.444	-2.522	-2.788	-3.401	-2.439	-2.107
21	-2.275	-2.407	-1.812	-1.858	-2.398	-1.787	-1.617
22	-1.901	-1.649	-1.053	-1.043	-.989	-1.309	-1.367
23	-1.641	-.865	-.509	-.419	-.545	-.365	-.528
24	-1.448	-.716	-.555	-.506	-.422	-.436	-.626
25	.707	-.283	-2.307	1.144	1.449	1.399	-.686
26	.224	.736	.564	.471	.000.000	.103	.459
27	.787	.990	.947	1.401	1.433	1.078	.666
28	.552	.891	.830	1.034	1.070	.886	.649
29	.094	.736	.794	.918	.915	.834	.637
30	-.243	.884	.922	1.109	.962	1.061	-.178
31	.194	1.088	.934	1.390	1.384	1.397	.515
32	.510	1.019	.972	1.399	1.401	1.358	.940
33	.421	.528	.867	1.100	1.053	.872	.389

$\alpha = 40°$

	WING STATIONS						
TUNE NO	1	2	3	4	5	6	7
1	-.868	-4.713	-7.292	-1.881	-.601	-.607	-3.831
2	-1.635	-5.411	-7.432	-3.093	-1.997	-2.088	-3.798
3	-1.748	-5.447	-7.201	-3.407	-2.593	-2.399	-3.626
4	-2.034	-5.026	-6.277	-3.439	-2.773	-2.837	-3.439
5	-2.696	-3.828	-4.454	-3.002	-2.595	-2.513	-2.440
6	.145	-.372	-.651	.010	.032	-.582	-.529
7	-2.103	-3.490	-4.745	-3.043	-2.456	-2.047	-2.338
8	-3.279	-5.147	-5.056	-4.617	-4.145	-3.358	-3.242
9	-3.314	-5.447	-6.230	-5.818	-5.652	-4.411	-3.556
10	-2.444	-3.814	-4.072	-4.289	-4.054	-2.979	-2.380
11	-1.612	-2.285	.000.000	-2.262	-2.437	-1.739	-1.481
12	-2.372	-1.776	-1.678	-1.606	-1.664	-1.120	-.989
13	-1.925	-1.716	-1.535	-1.265	-1.428	-.985	-.898
14	-1.886	-1.788	-1.589	-1.394	-1.593	-1.041	-.880
15	-1.440	-.260	-.440	-.281	-.338	-.188	-.206
16	-2.655	-2.430	-2.758	-2.496	-3.089	-2.360	-1.423
17	-2.790	-5.779	-3.179	-2.971	-4.179	-2.907	-1.927
18	-2.652	-3.900	-3.338	-3.268	-4.867	-3.819	-2.553
19	-2.489	-4.141	-3.524	-3.312	-4.895	-3.457	-2.342
20	-2.305	-3.148	-2.630	-2.669	-4.166	-3.104	-2.218
21	-2.012	-2.284	-1.805	-1.685	-2.940	-2.170	-1.626
22	-1.468	-1.572	-1.233	-.885	-1.546	-.943	-1.123
23	-1.612	-.855	-.574	-.458	-.523	-.422	-.685
24	-1.373	-.779	-.615	-.537	-.397	-.469	-.504
25	.552	-1.092	-3.996	.792	1.231	.693	-1.618
26	.105	.711	.586	.783	.000.000	.358	.398
27	.725	1.069	.841	1.467	1.433	1.109	.649
28	.449	.957	.901	1.125	1.103	.698	.711
29	.034	.817	.954	1.030	.943	.736	.680
30	-.425	.818	.875	1.129	.965	.886	-.153
31	.259	1.068	.962	1.447	1.421	1.289	.451
32	.451	.997	1.002	1.418	1.383	1.187	.973
33	.371	.550	.932	1.091	.978	.694	.348

$\alpha = 45°$

	WING STATIONS						
TUNE NO	1	2	3	4	5	6	7
1	-1.268	-5.547	-7.572	-2.323	-1.094	-2.384	-4.196
2	-2.268	-7.144	-8.360	-4.120	-2.726	-3.170	-4.609
3	-2.274	-6.434	-7.833	-4.020	-3.011	-3.237	-4.040
4	-2.353	-5.547	-6.544	-4.111	-3.314	-3.289	-3.634
5	-3.189	-4.409	-4.433	-3.223	-2.807	-2.718	-2.623
6	.036	-.537	-1.087	-.035	.032	-.645	-.588
7	-2.479	-3.978	-5.078	-3.369	-2.674	-1.988	-2.347
8	-3.714	-5.967	-5.539	-5.248	-4.751	-3.472	-3.436
9	-3.302	-5.508	-6.185	-5.840	-5.556	-3.715	-3.061
10	-2.659	-3.996	-4.089	-4.472	-4.152	-2.908	-2.433
11	-1.767	-2.402	.000.000	-2.367	-2.532	-1.361	-1.287
12	-2.041	-1.565	-1.545	-1.351	-1.440	-.902	-.916
13	-1.507	-1.490	-1.442	-1.233	-1.352	-.903	-.955
14	-1.599	-1.572	-1.543	-1.292	-1.476	-1.050	-1.039
15	-1.401	-.423	-.530	-.276	-.417	-.189	-.169
16	-2.314	-2.388	-2.677	-2.533	-3.155	-2.117	-1.488
17	-2.486	-4.944	-2.981	-2.565	-3.685	-2.553	-1.884
18	-2.233	-3.251	-2.919	-2.586	-3.978	-2.252	-1.752
19	-2.033	-3.005	-2.974	-2.506	-3.853	-2.260	-1.773
20	-1.820	-2.629	-2.594	-2.075	-2.908	-1.788	-1.585
21	-1.608	-1.856	-1.792	-1.686	-2.642	-1.584	-1.451
22	-1.408	-1.322	-1.211	-.986	-1.337	-.861	-.967
23	-1.471	-.768	-.631	-.618	-.642	-.517	-1.063
24	-1.183	-.738	-.582	-.366	-.379	-.351	-.461
25	.605	-1.855	-5.884	.382	1.090	-1.036	-2.107
26	.015	.681	.449	.890	.000.000	.634	.257
27	.568	.979	.522	1.331	1.346	.653	.599
28	.439	.978	.862	1.125	1.097	.776	.688
29	.005	.737	.921	.880	.788	.749	.641
30	-.269	.893	.815	1.043	.761	.856	.077
31	.240	1.026	.956	1.432	1.378	1.245	.671
32	.376	.999	1.027	1.340	1.241	1.096	.829
33	.237	.566	.982	1.041	.930	.739	.387

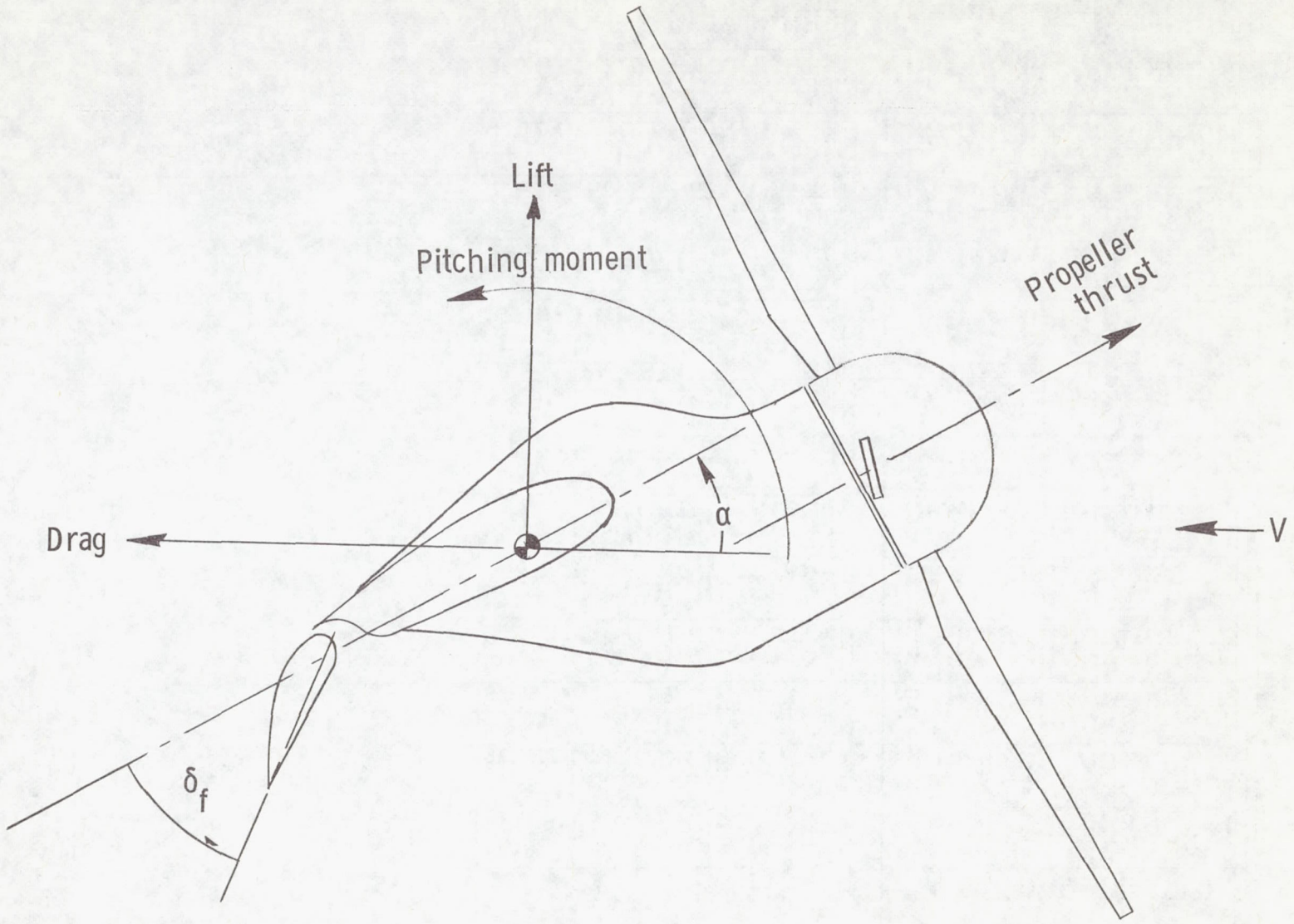
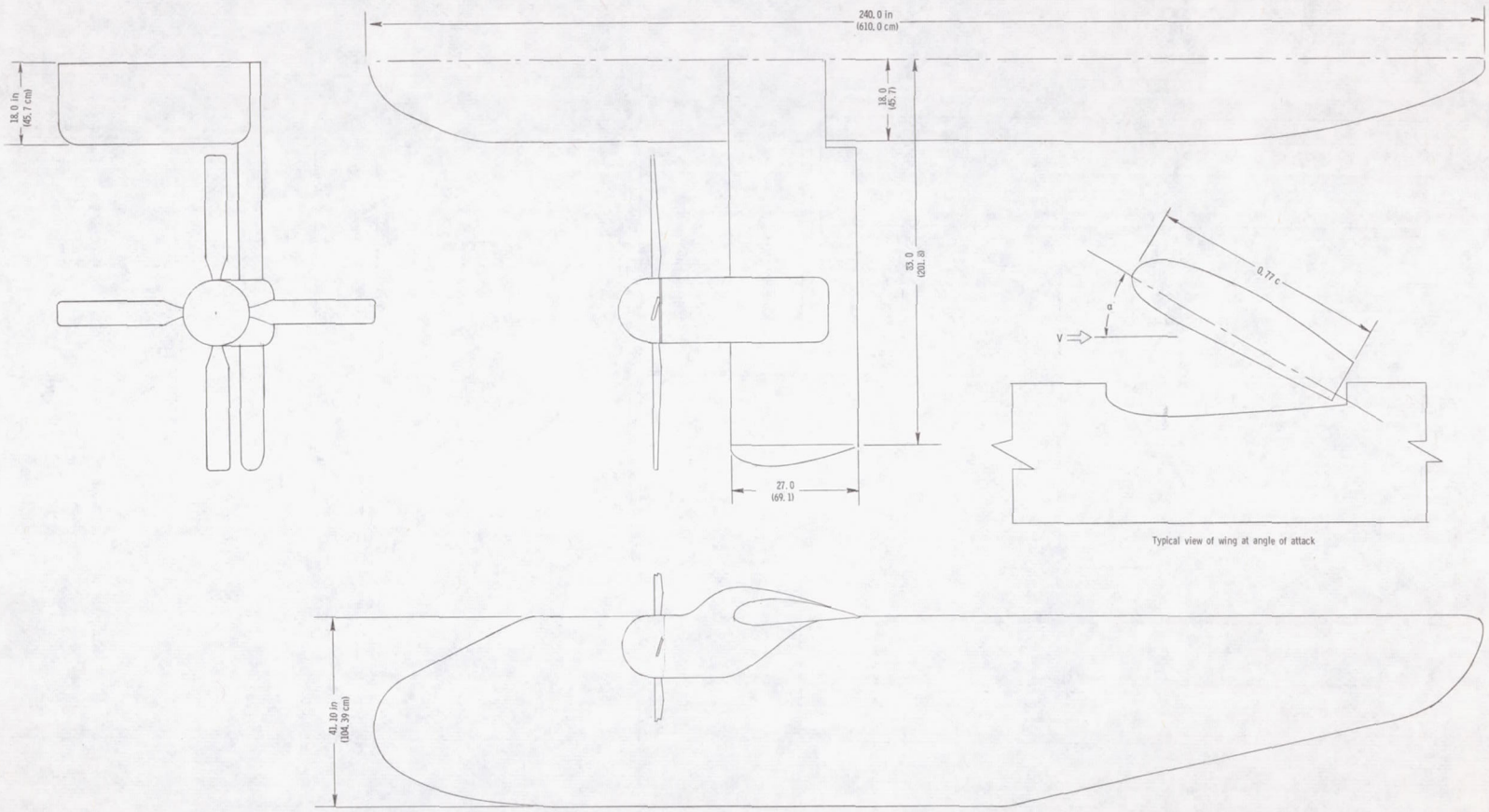
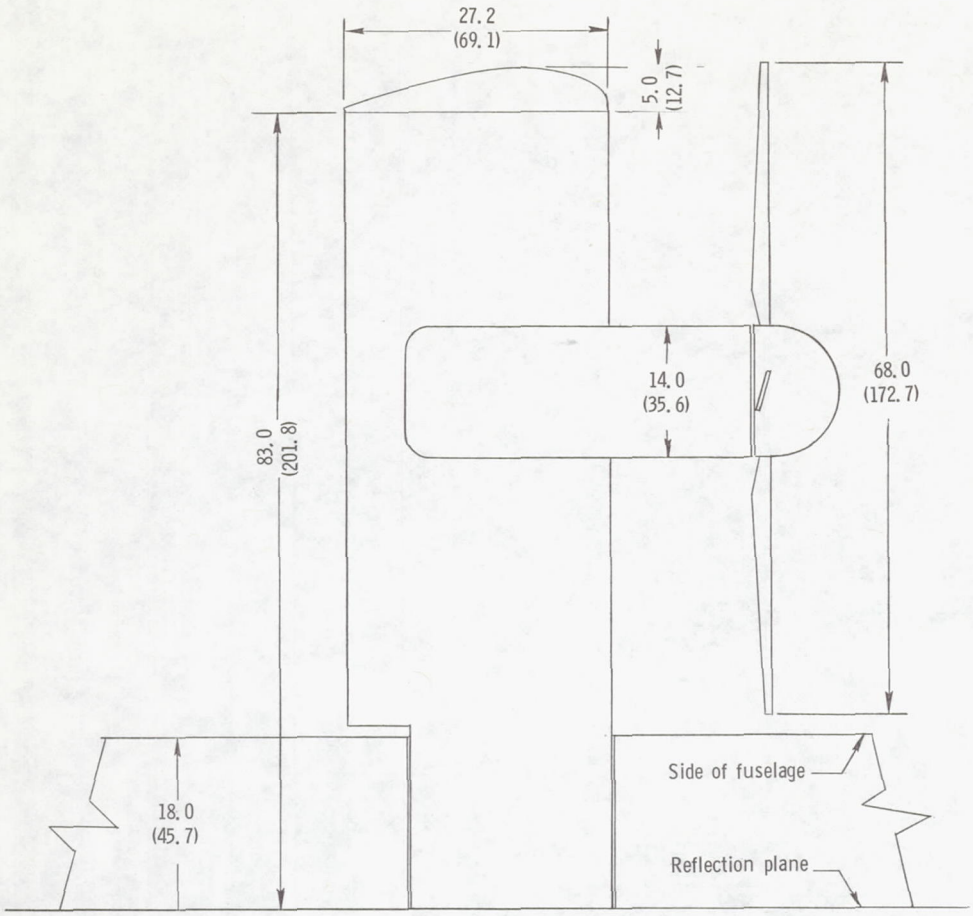


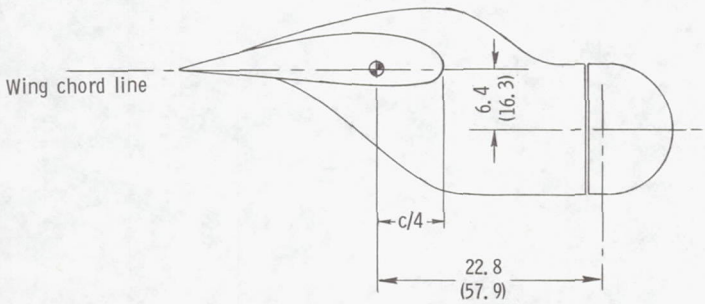
Figure 1.- The positive sense of forces, moments, and angles.



(a) Three-view drawing of the wing and fuselage.

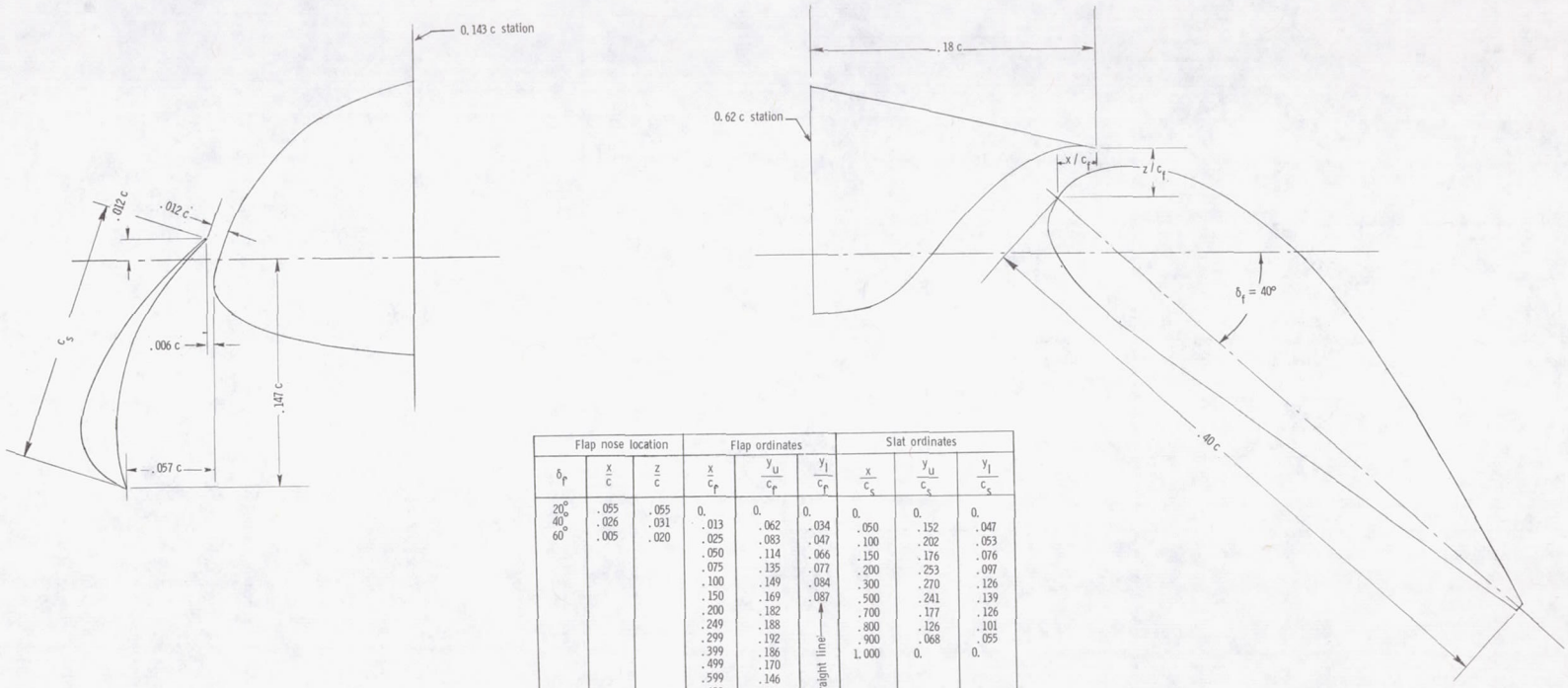
Figure 2.- Three-view drawing and principal dimensions of the model.





(b) Principal dimensions of wing are in inches (centimeters).

Figure 2.- Continued.

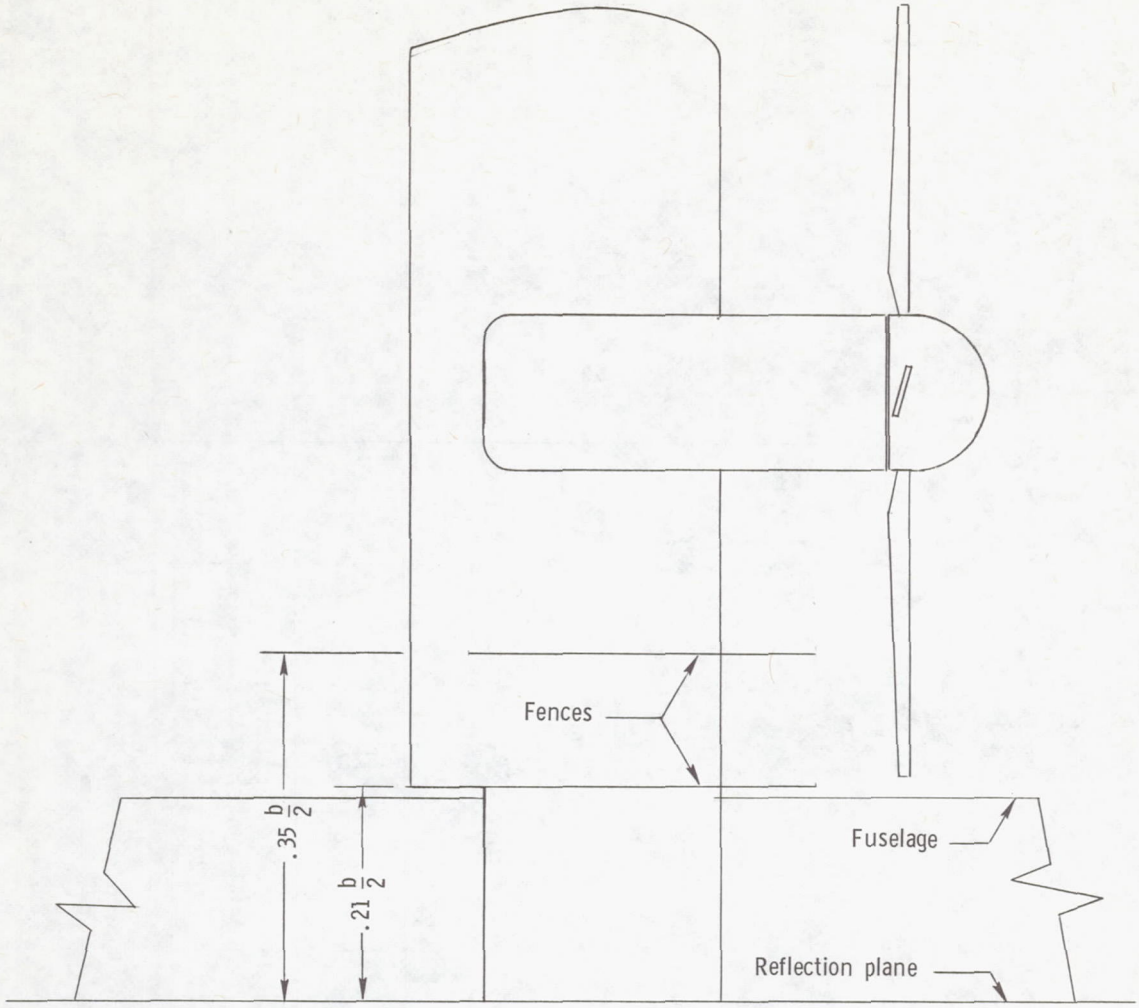


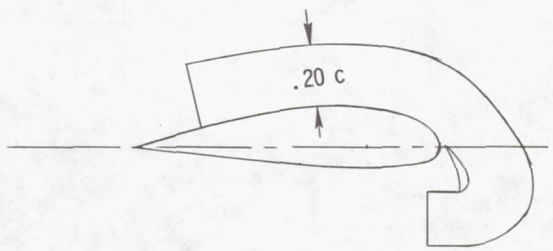
Flap nose location			Flap ordinates			Slat ordinates		
δ_f	$\frac{x}{c}$	$\frac{z}{c}$	$\frac{x}{c_f}$	$\frac{y_u}{c_f}$	$\frac{y_l}{c_f}$	$\frac{x}{c_s}$	$\frac{y_u}{c_s}$	$\frac{y_l}{c_s}$
20°	.055	.055	0.	0.	0.	0.	0.	0.
40°	.026	.031	.013	.062	.034	.050	.152	.047
60°	.005	.020	.025	.083	.047	.100	.202	.053
			.050	.114	.066	.150	.176	.076
			.075	.135	.077	.200	.253	.097
			.100	.149	.084	.300	.270	.126
			.150	.169	.087	.500	.241	.139
			.200	.182	↑	.700	.177	.126
			.249	.188		.800	.126	.101
			.299	.192		.900	.068	.055
			.399	.186		1.000	0.	0.
			.499	.170				
			.599	.146				
			.698	.116	Straight line			
			.798	.083				
			.898	.045				
			.948	.027				
			.998	.005	↓			
					.005			

Note: Slat and flap ordinates *are normal to* chords.

(c) Cross-sectional view of the slat and flap.

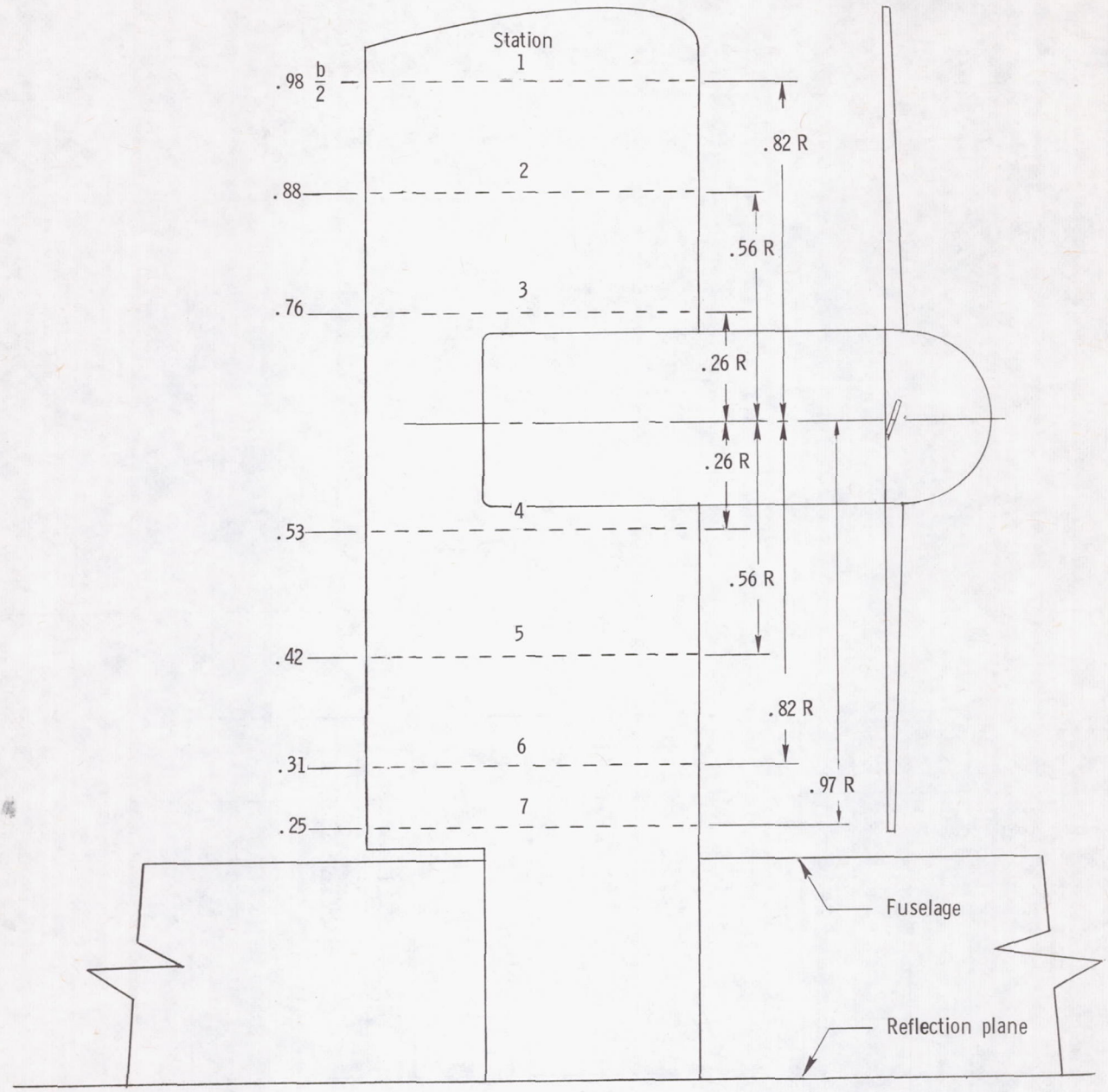
Figure 2.- Continued.





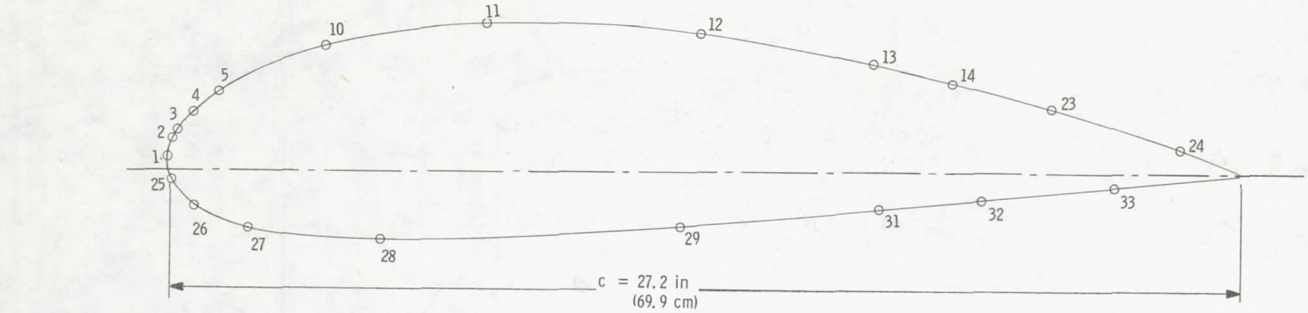
(d) Sectional view and location of fences.

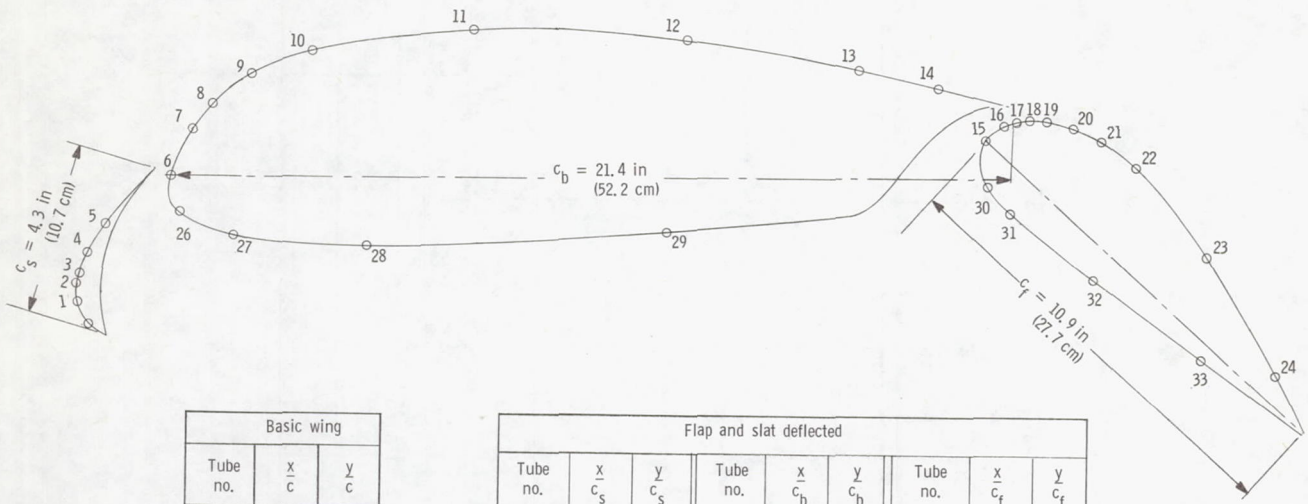
Figure 2.- Concluded.



(a) Spanwise location.

Figure 3.- Spanwise and chordwise location of wing pressure orifices.





Basic wing		
Tube no.	$\frac{x}{c}$	$\frac{y}{c}$
1	0	.013
2	.005	.030
3	.010	.039
4	.025	.054
5	.050	.074
10	.149	.116
11	.301	.137
12	.500	.165
13	.661	.100
14	.735	.085
23	.828	.060
24	.950	.021
25	.005	-.010
26	.025	-.033
27	.076	-.054
28	.199	-.065
29	.480	-.053
31	.657	-.035
32	.762	-.025
33	.886	-.013

Flap and slat deflected								
Tube no.	$\frac{x}{c_s}$	$\frac{y}{c_s}$	Tube no.	$\frac{x}{c_b}$	$\frac{y}{c_b}$	Tube no.	$\frac{x}{c_f}$	$\frac{y}{c_f}$
25	.035	.176	6	.005	0	15	0	0
1	.134	.220	7	.028	.053	16	.010	.057
2	.468	.253	8	.051	.083	17	.025	.083
3	.305	.258	9	.098	.121	18	.045	.102
4	.433	.239	10	.165	.148	19	.075	.130
5	.626	.187	11	.360	.175	20	.130	.160
			12	.615	.163	21	.200	.183
			13	.820	.127	22	.300	.191
			14	.911	.105	23	.564	.152
			26	.011	-.042	24	.865	.057
			27	.077	-.069	30	.075	-.077
			28	.234	-.083	31	.153	-.086
			29	.591	-.053	32	.400	-.063
						33	.715	-.032

(b) Chordwise location.

Figure 3.- Concluded.

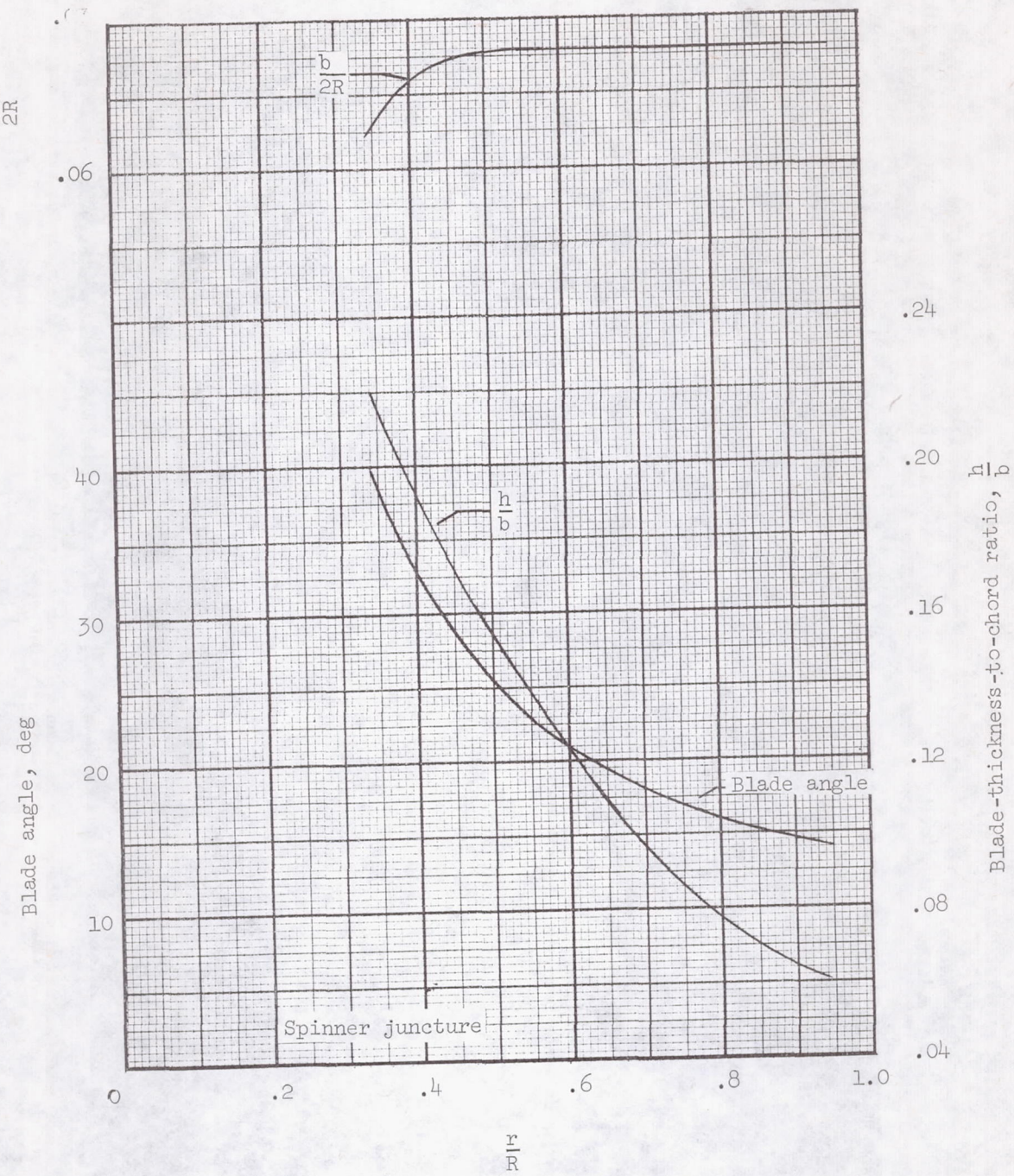


Figure 4.- Propeller blade form curves.

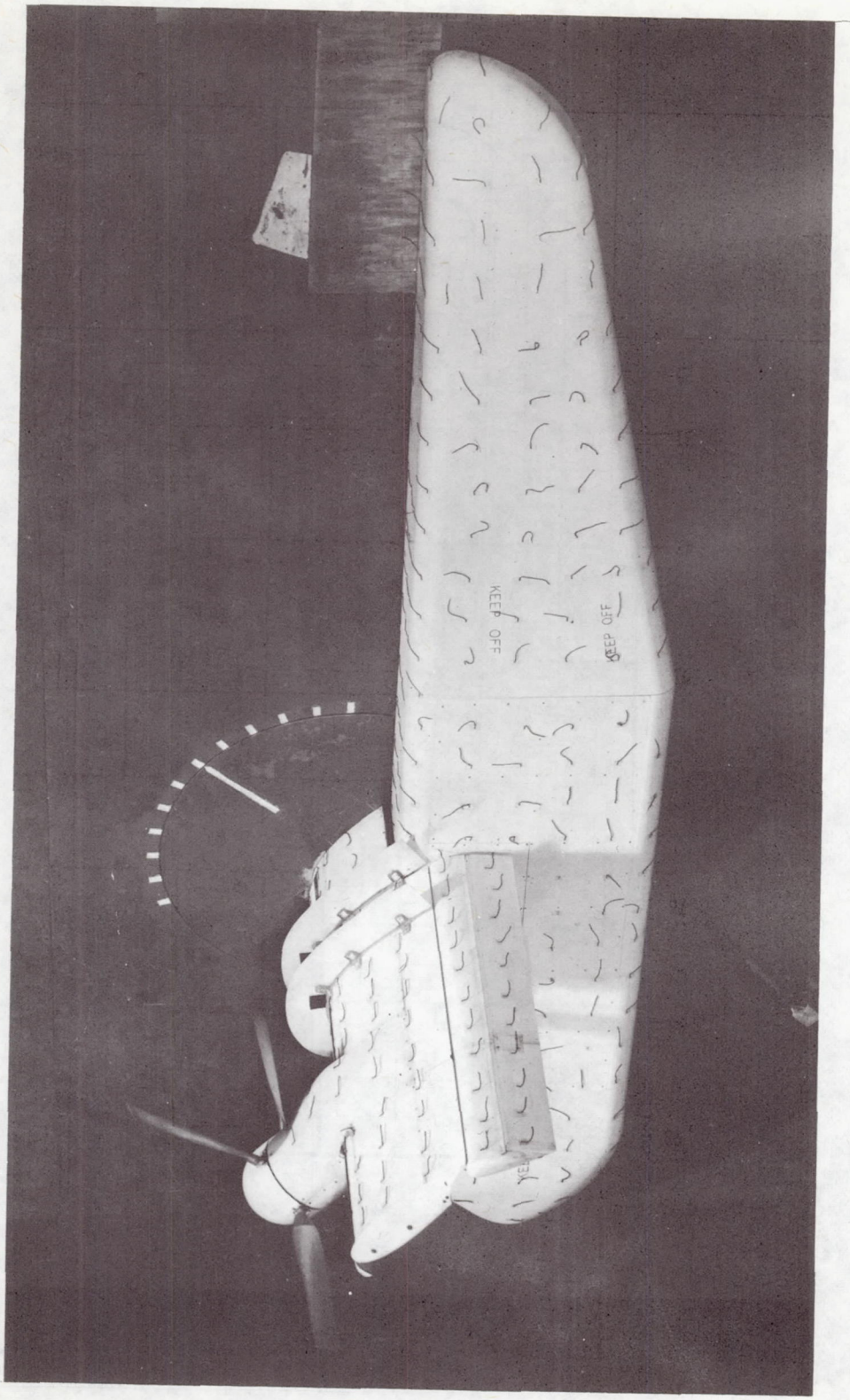
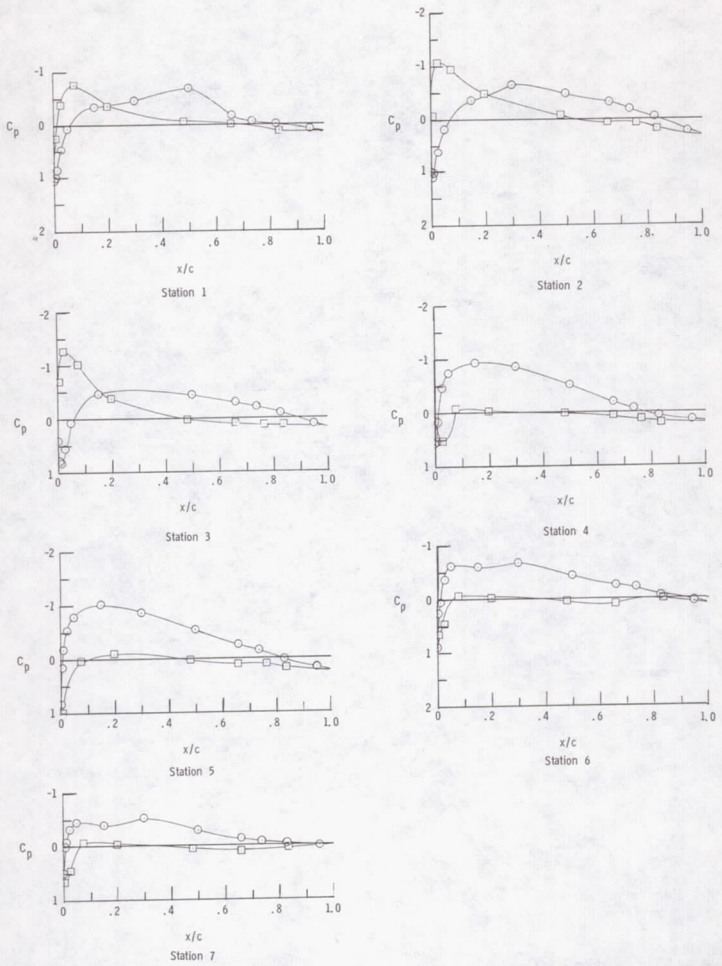


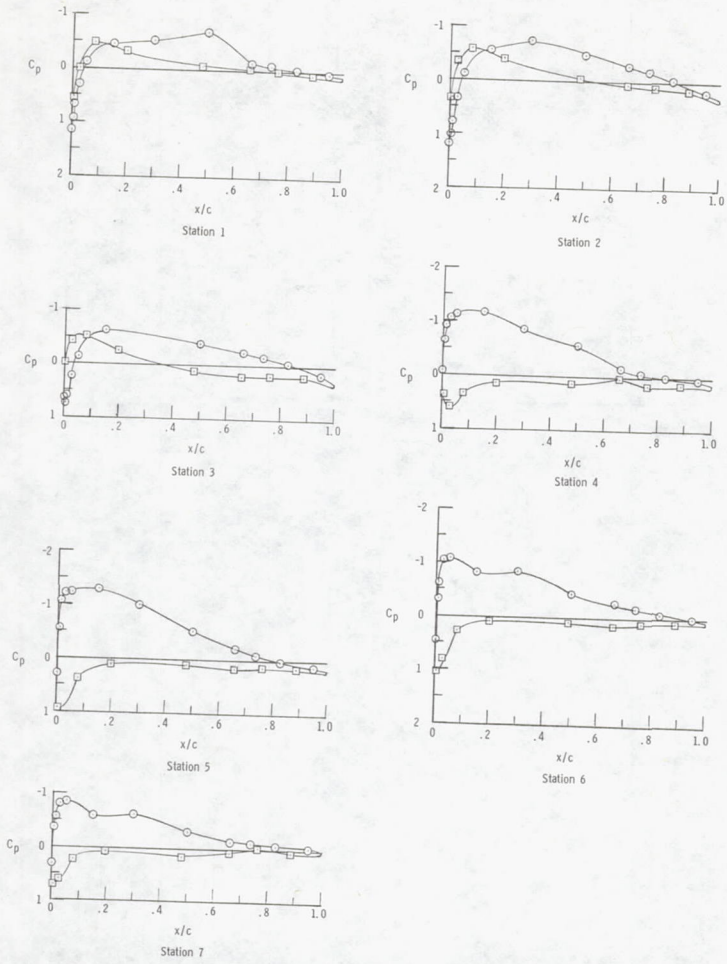
Figure 5.- Photograph of model.

L-68-10 012



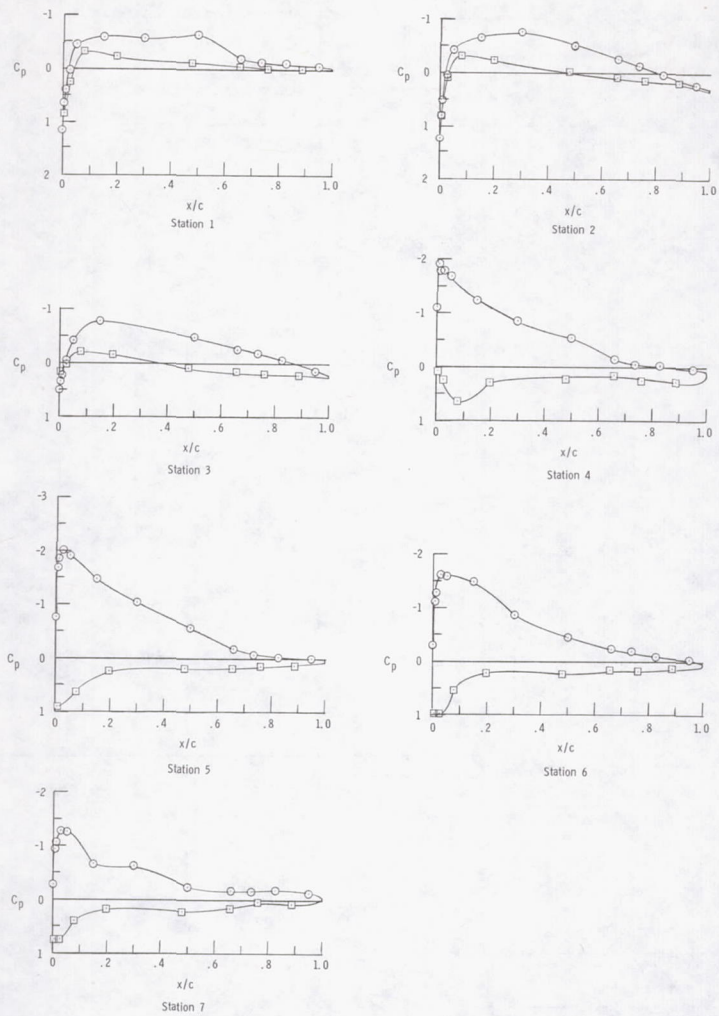
(a) $\alpha = 5^0$.

Figure 6.- Pressure coefficients for down-at-the-tip rotation. Basic leading edge; $C_{T,S} = 0.60$; $\delta_f = 0$.



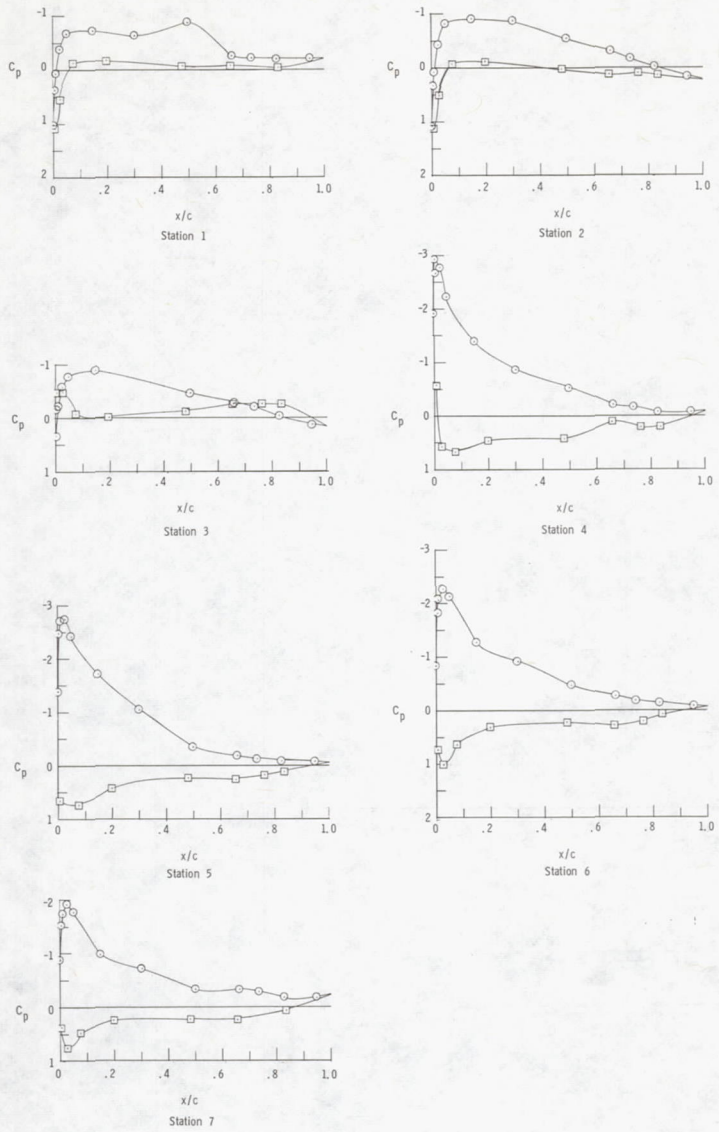
(b) $\alpha = 10^0$.

Figure 6.- Continued.



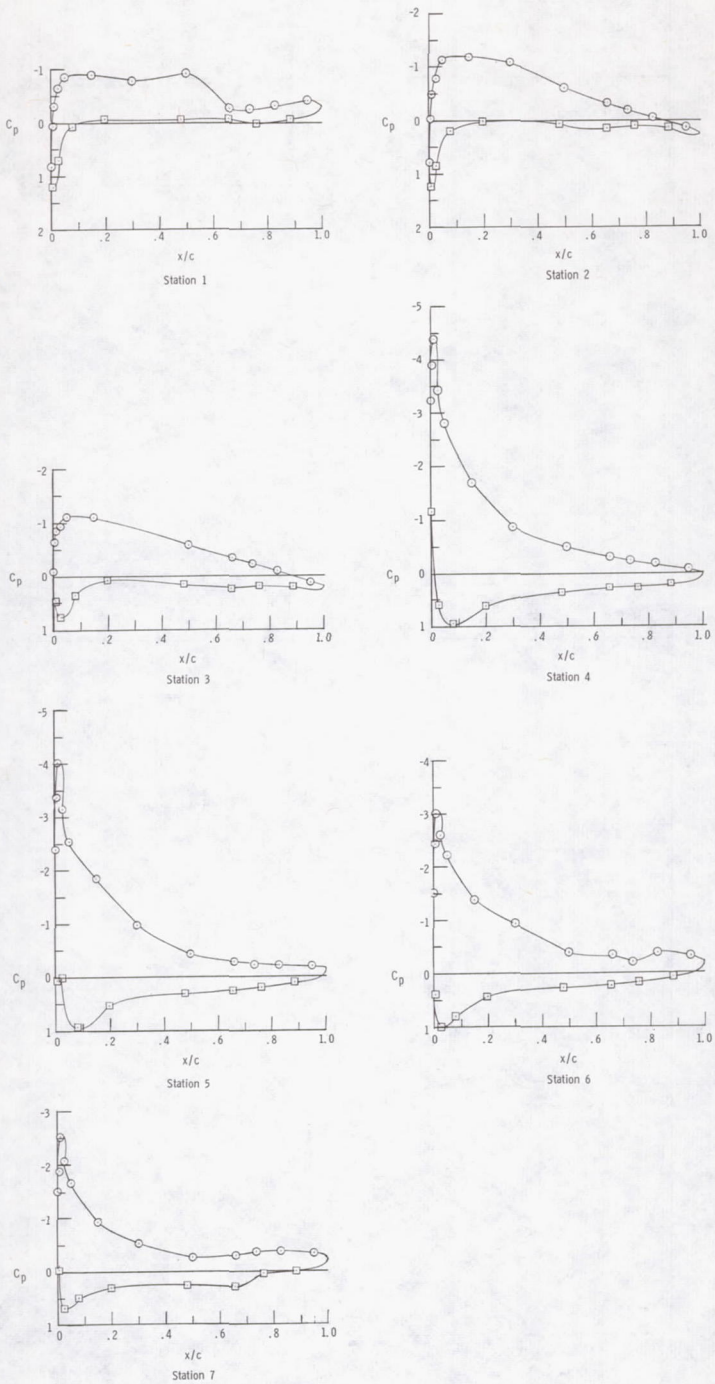
(c) $\alpha = 15^{\circ}$.

Figure 6.- Continued.



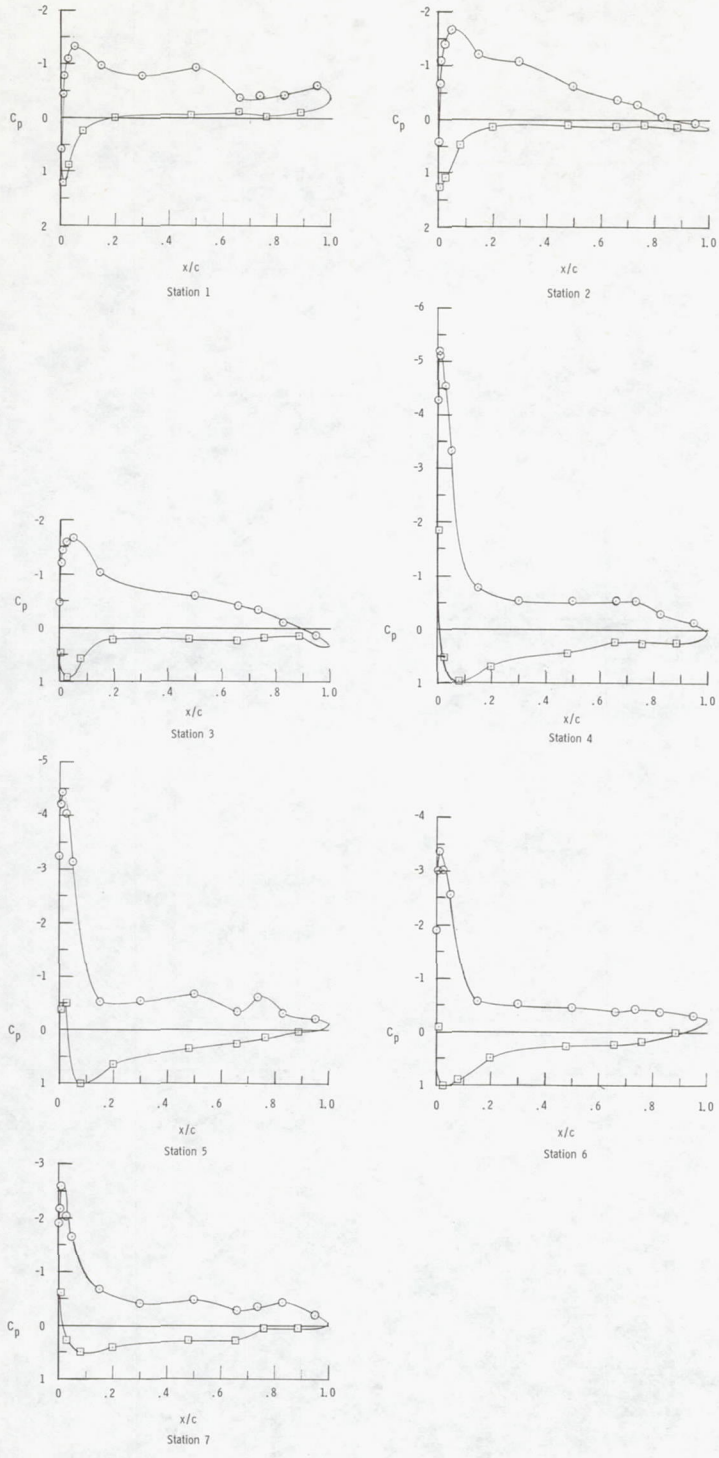
(d) $\alpha = 20^0$.

Figure 6.- Continued.



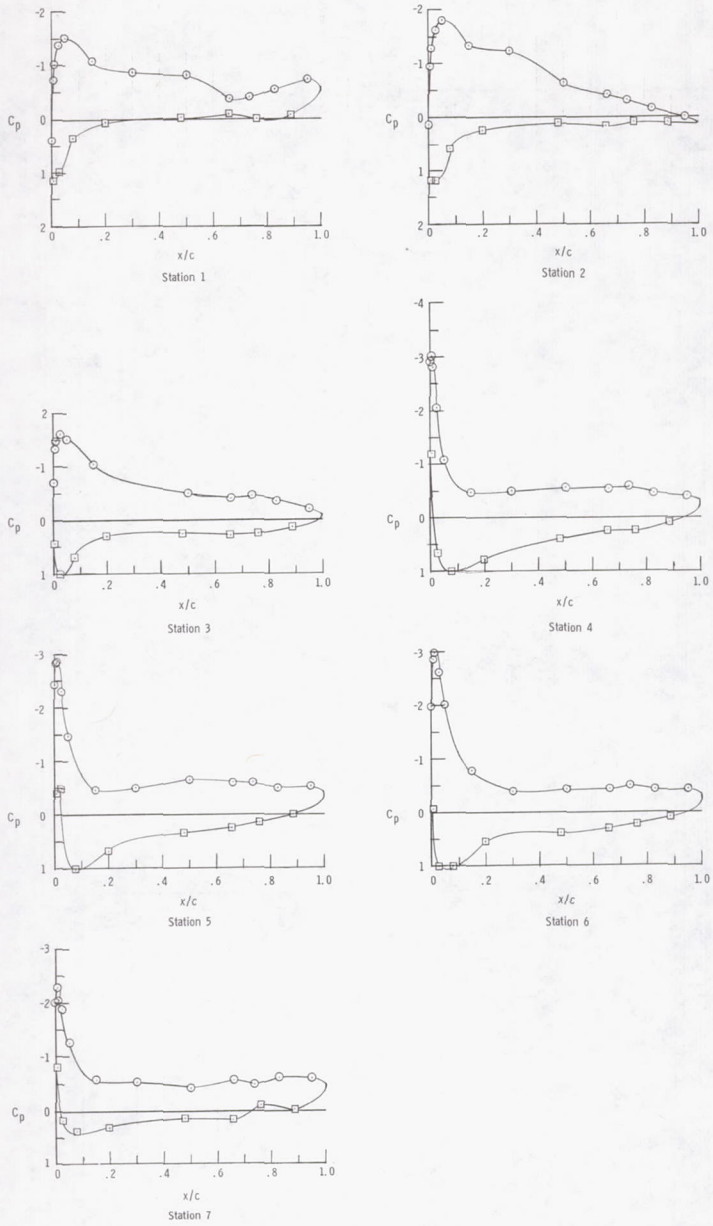
(e) $\alpha = 25^0$.

Figure 6.- Continued.



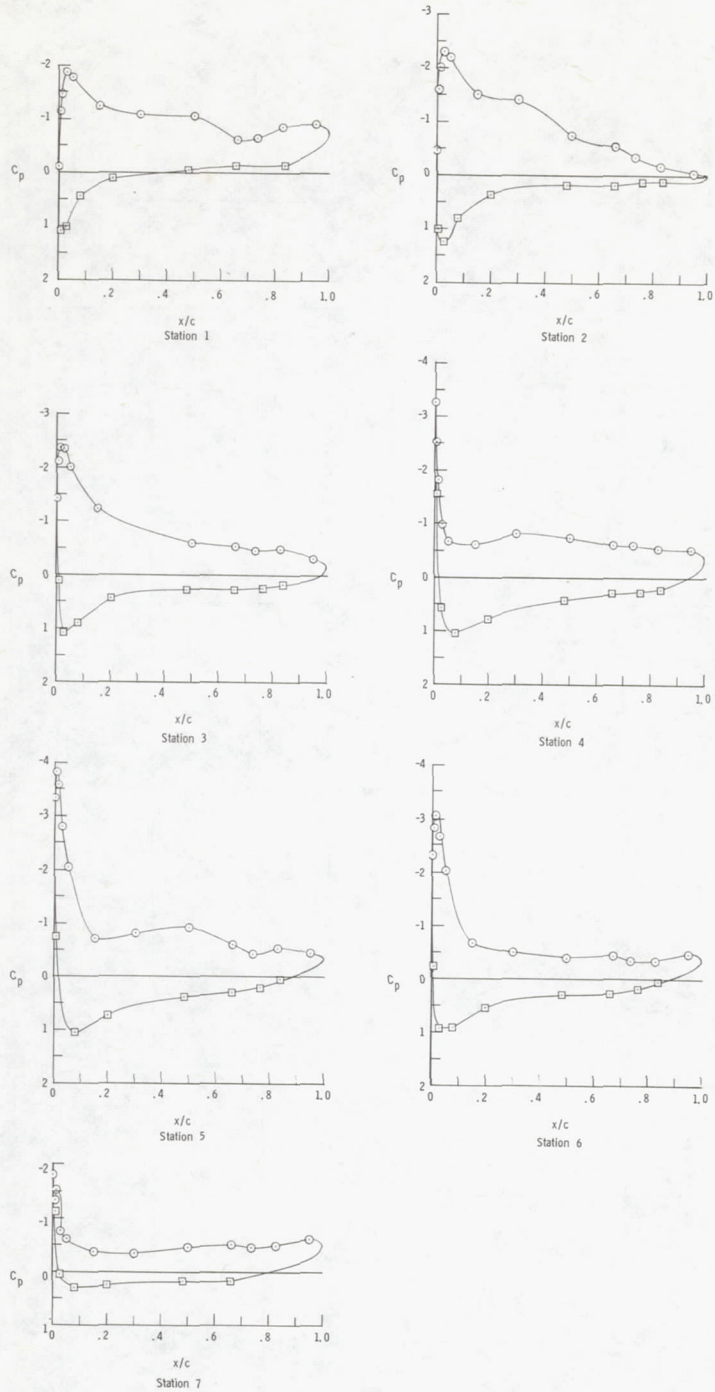
(f) $\alpha = 30^0$.

Figure 6.- Continued.



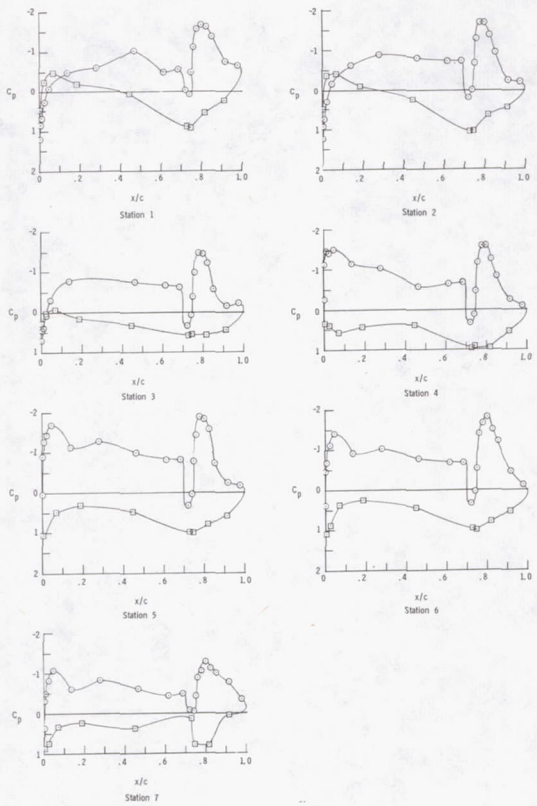
(g) $\alpha = 35^0$.

Figure 6.- Continued.



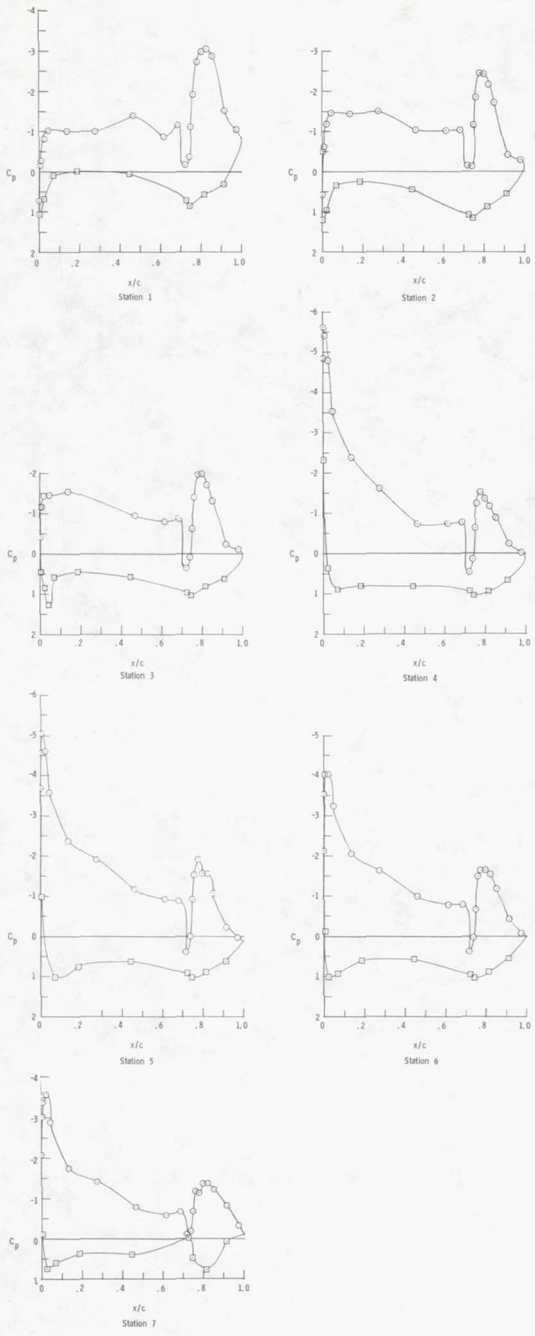
(h) $\alpha = 40^0$.

Figure 6.- Concluded.



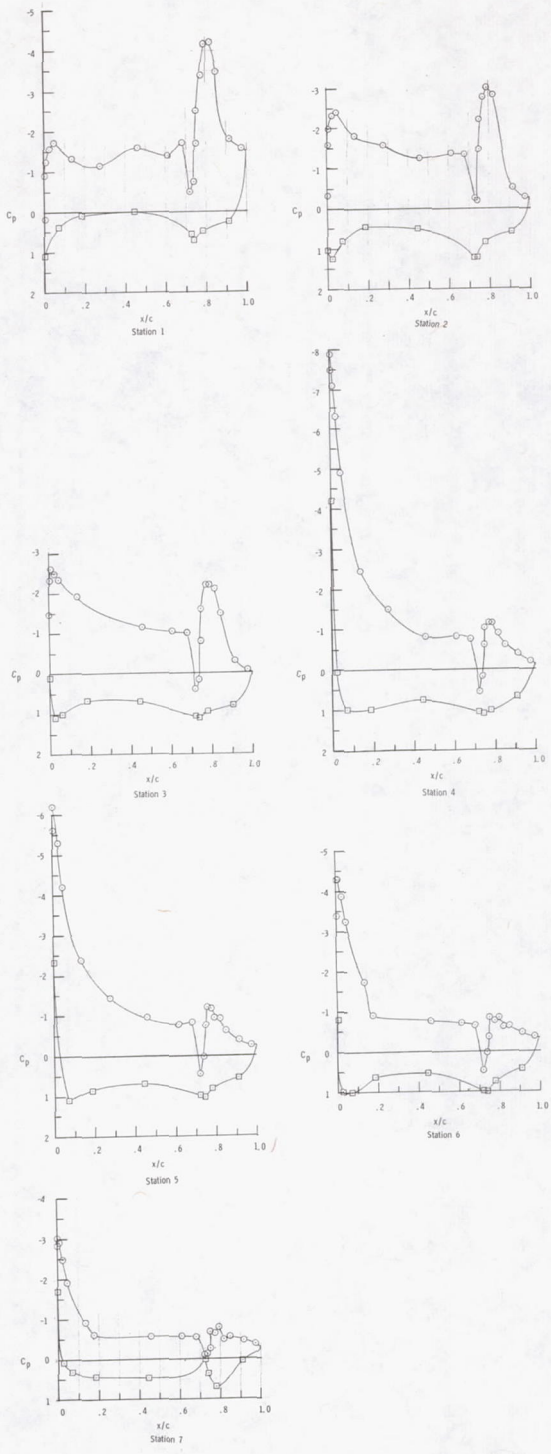
(a) $\alpha = 5^0$.

Figure 7.- Pressure coefficients for down-at-the-tip rotation. Basic leading edge; $C_{T,S} = 0.60$; $\delta_f = 40$.



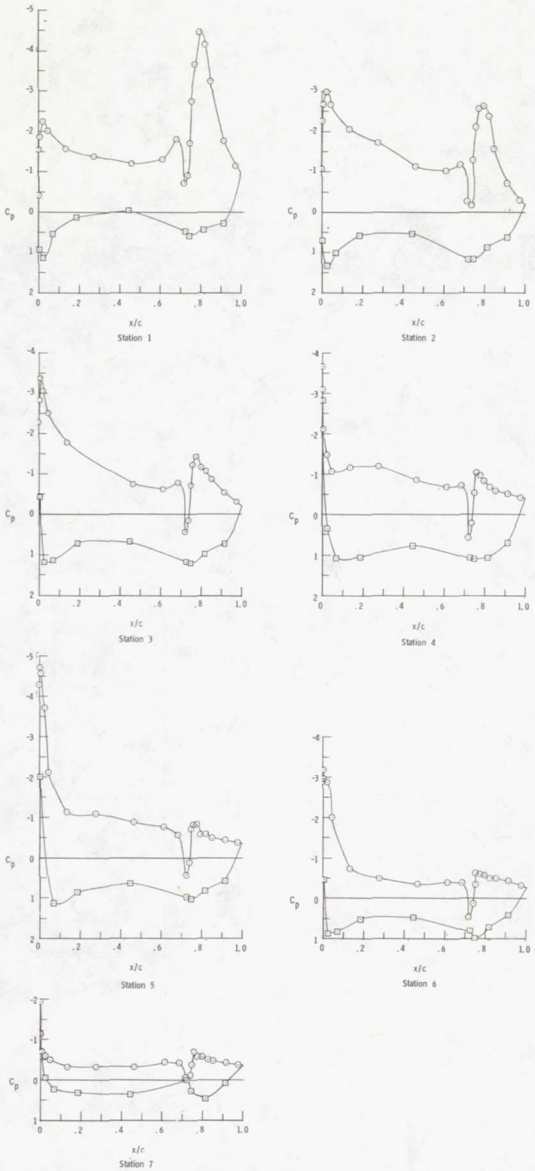
(b) $\alpha = 20^0$.

Figure 7.- Continued.



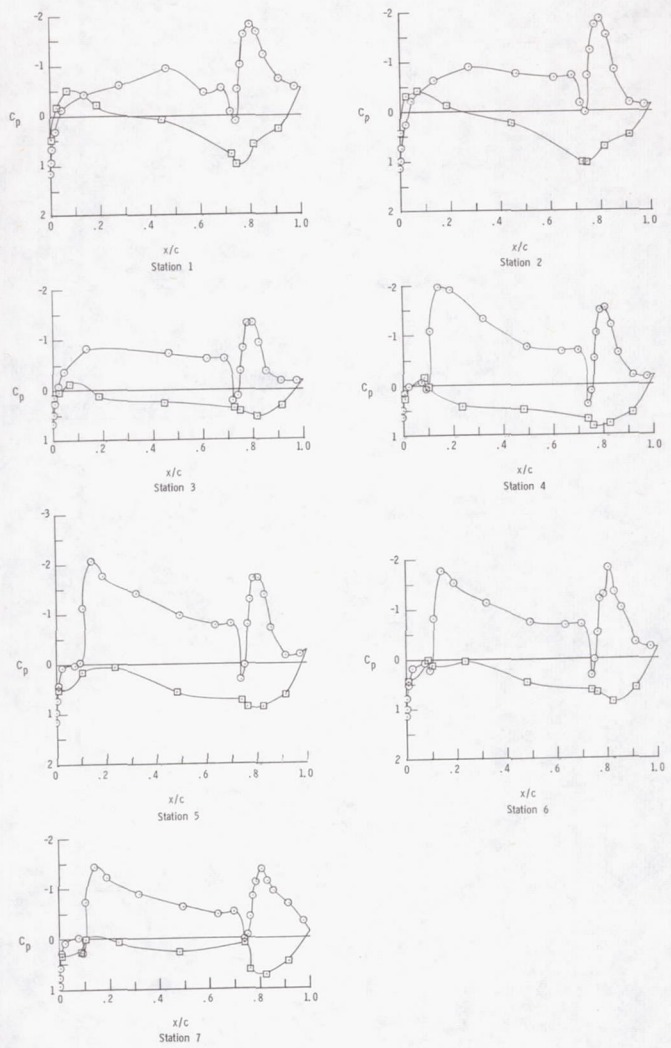
(c) $\alpha = 30^0$.

Figure 7.- Continued.



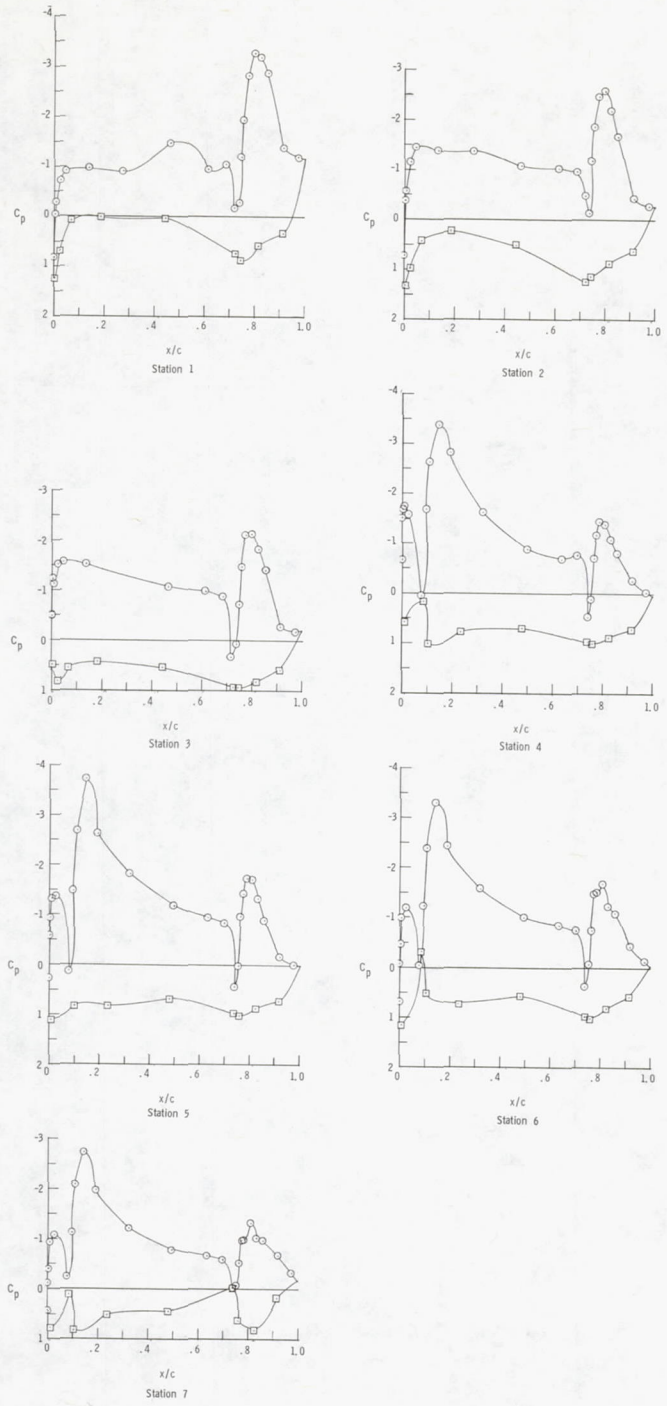
(d) $\alpha = 40^{0}$.

Figure 7.- Concluded.



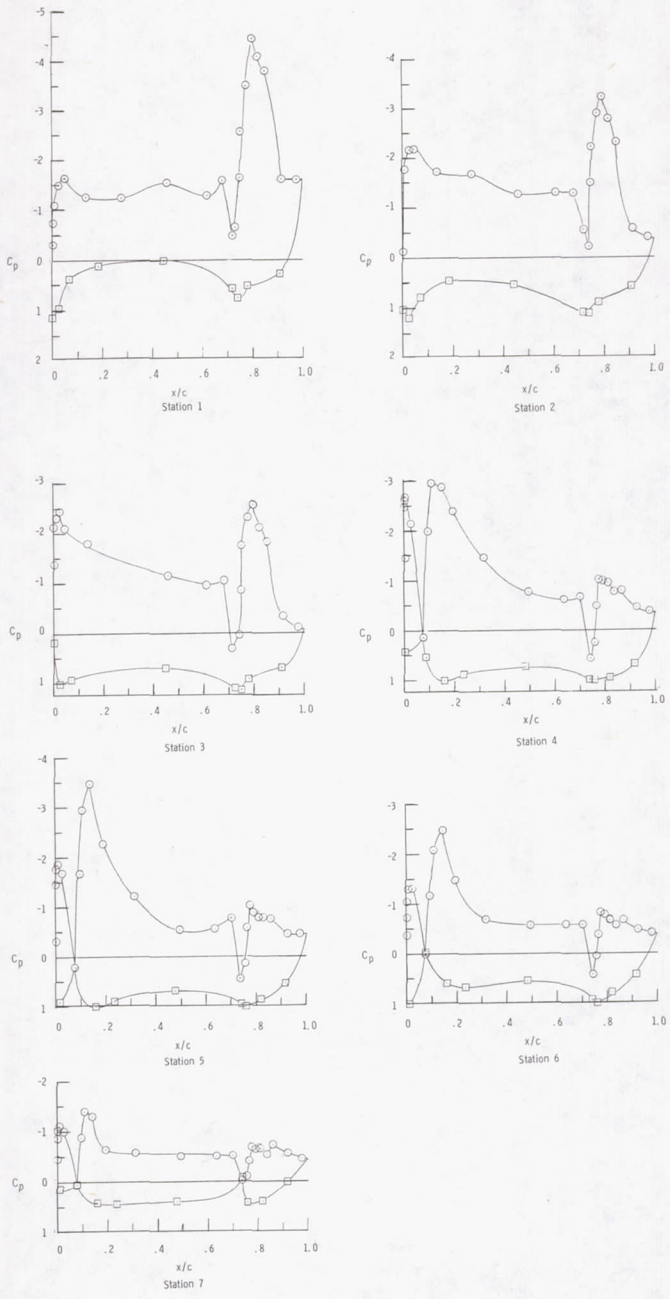
(a) $\alpha = 5^0$.

Figure 8.- Pressure coefficients for down-at-the-tip rotation. Inboard slat; $C_{T,S} = 0.60$; $\delta_f = 40$.



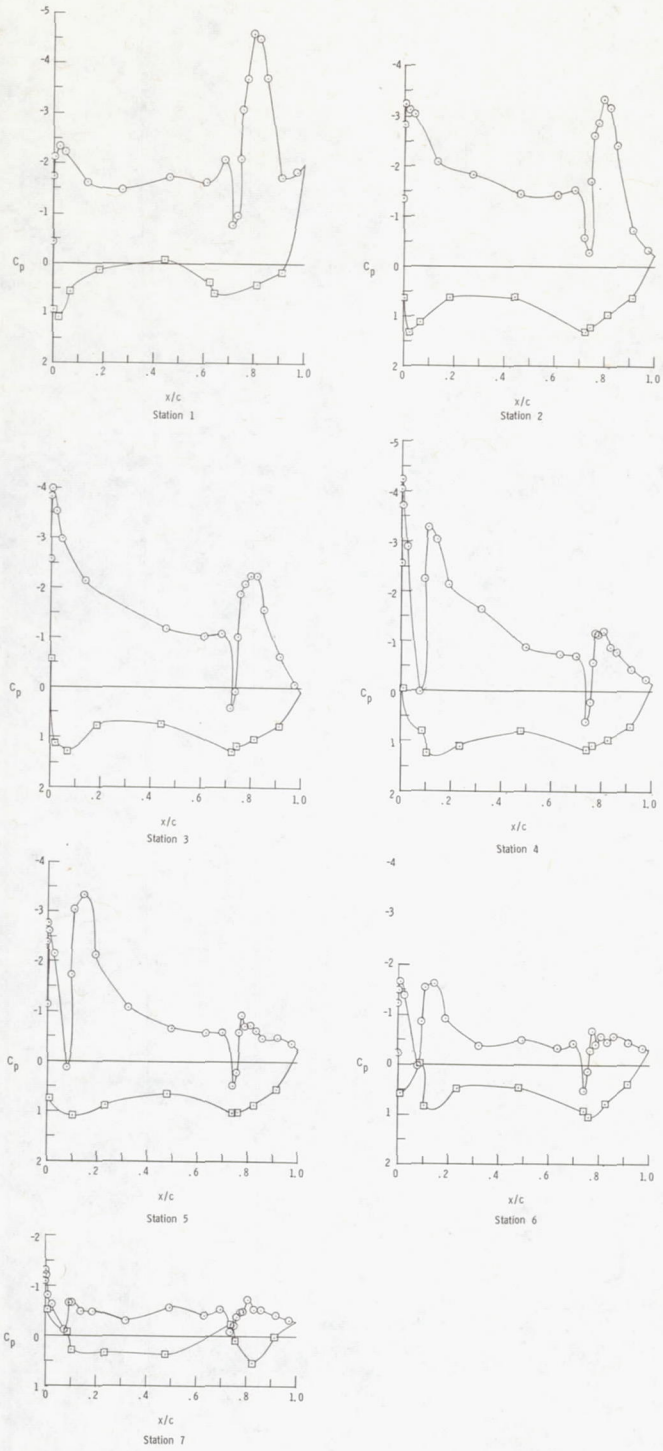
(b) $\alpha = 20^{o}$.

Figure 8.- Continued.



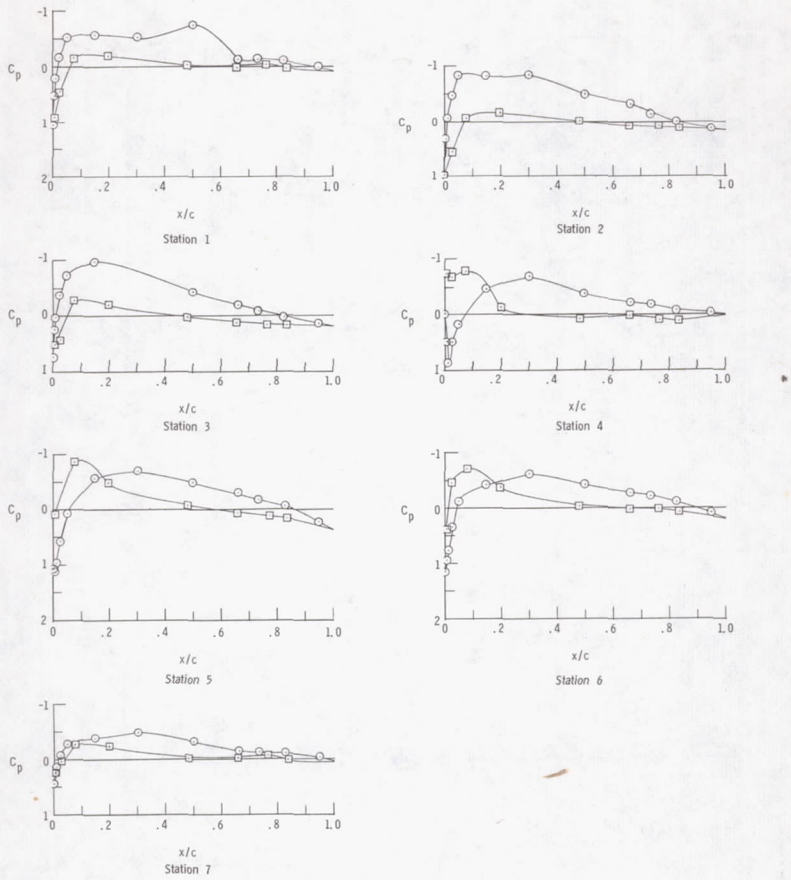
(c) $\alpha = 30^{o}$.

Figure 8.- Continued.



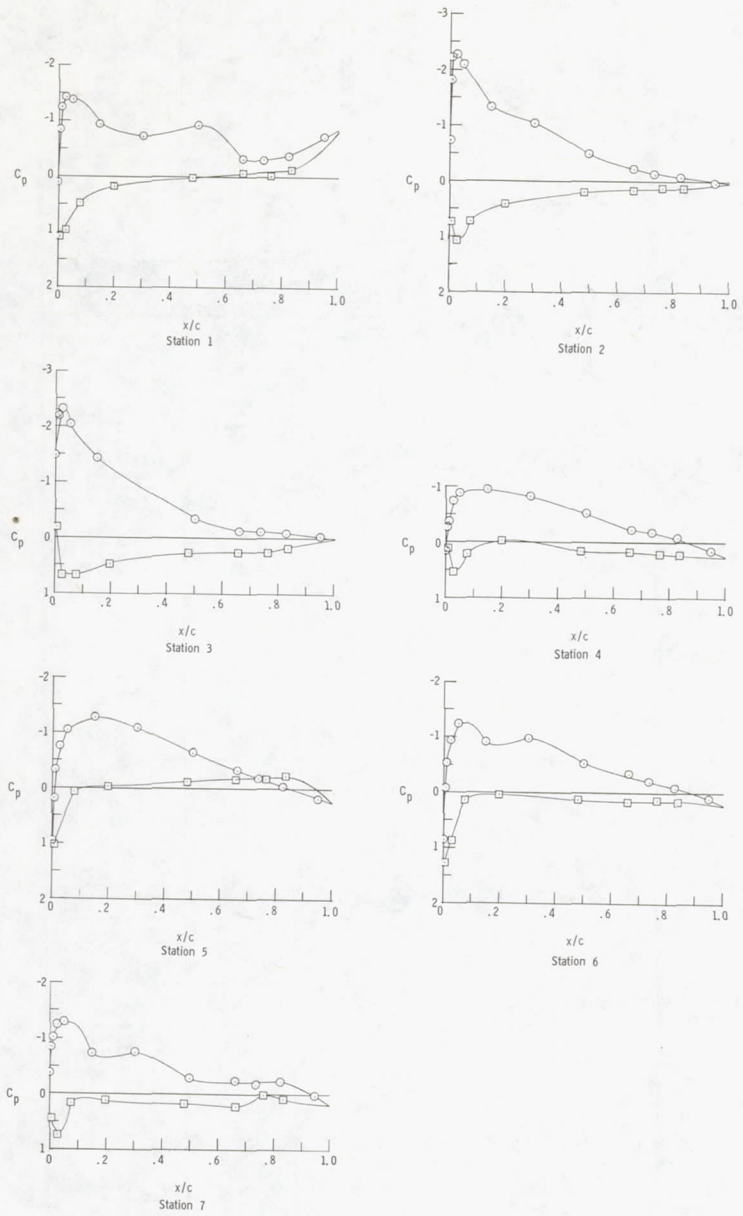
(d) $\alpha = 40^0$.

Figure 8.- Concluded.



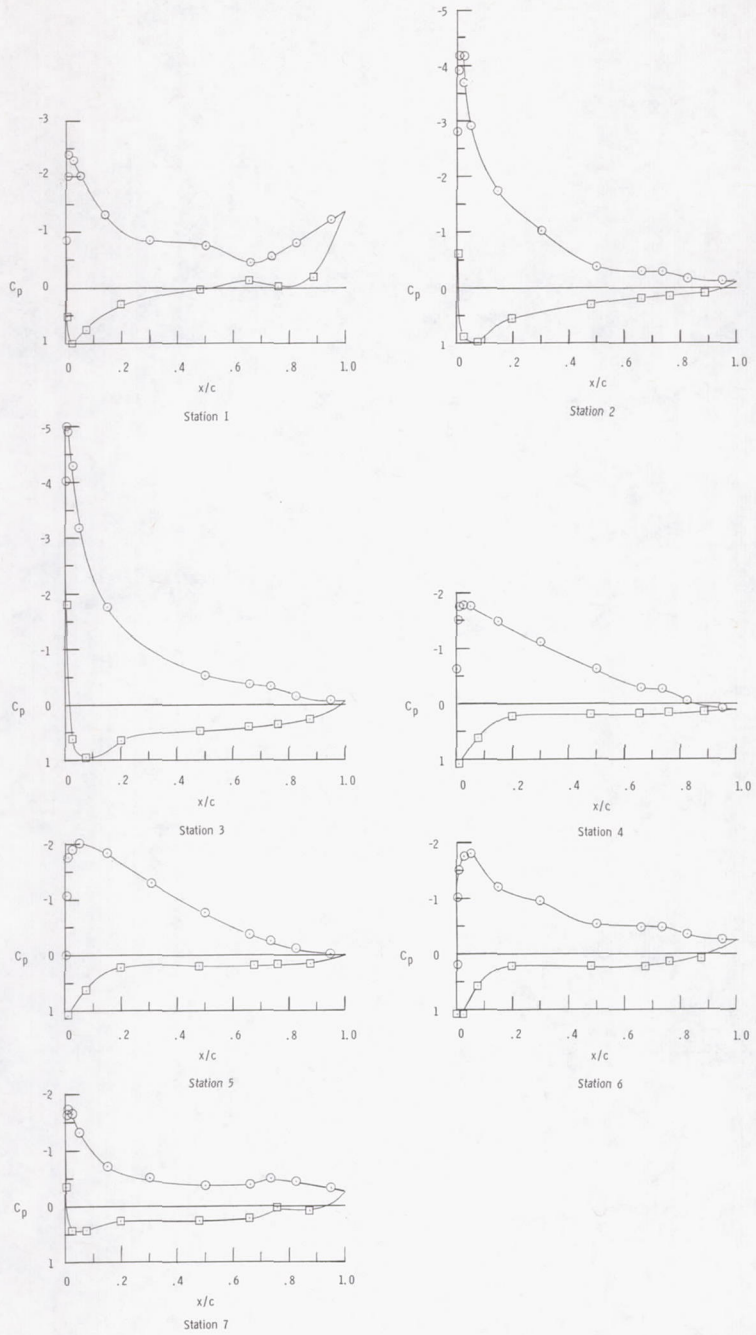
(a) $\alpha = 5^0$.

Figure 9.- Pressure coefficients for up-at-the-tip rotation. Basic leading edge; $C_{T,S} = 0.60$; $\delta_f = 0$.



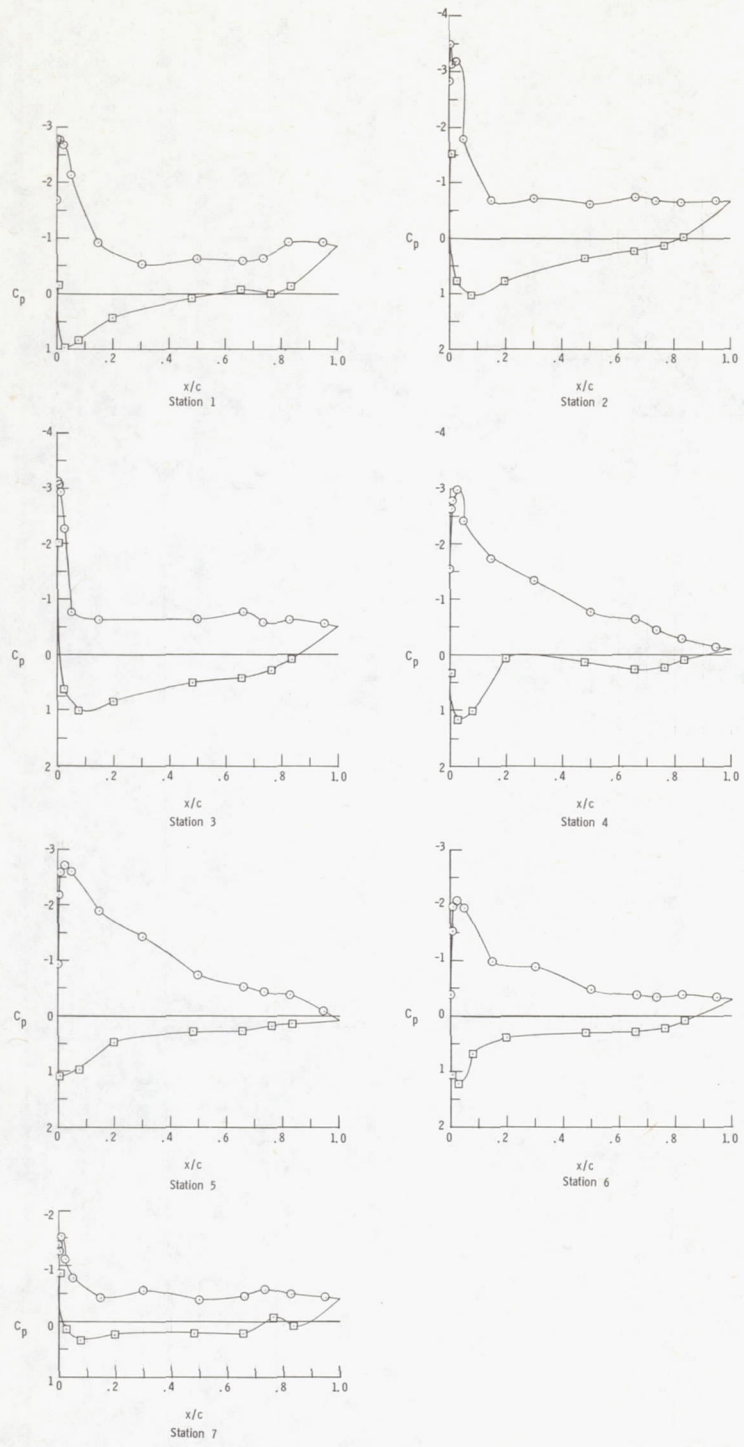
(b) $\alpha = 20^0$.

Figure 9.- Continued.



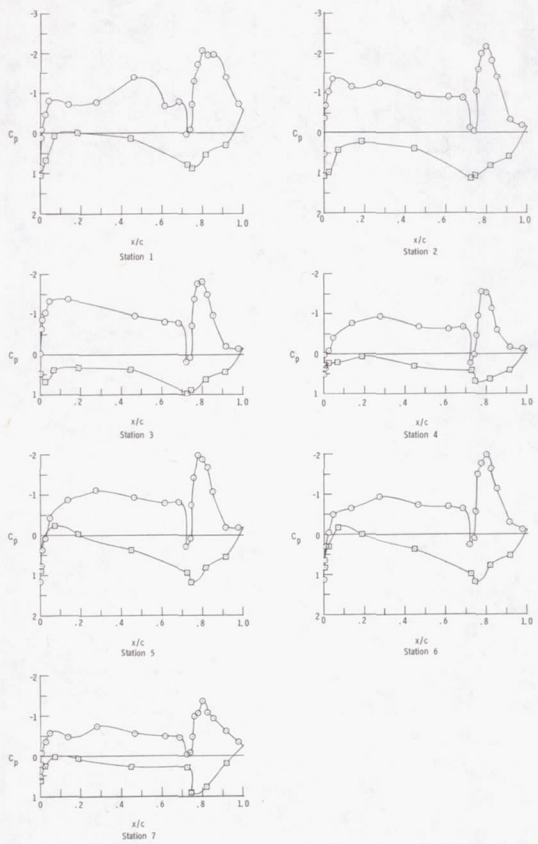
(c) $\alpha = 30^0$.

Figure 9.- Continued.



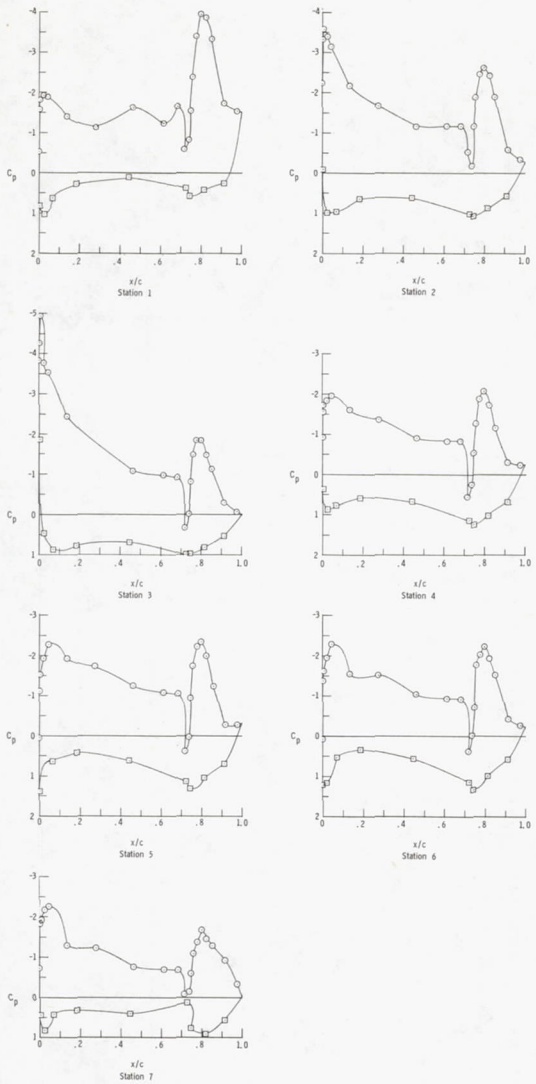
(d) $\alpha = 40^{o}$.

Figure 9.- Concluded.



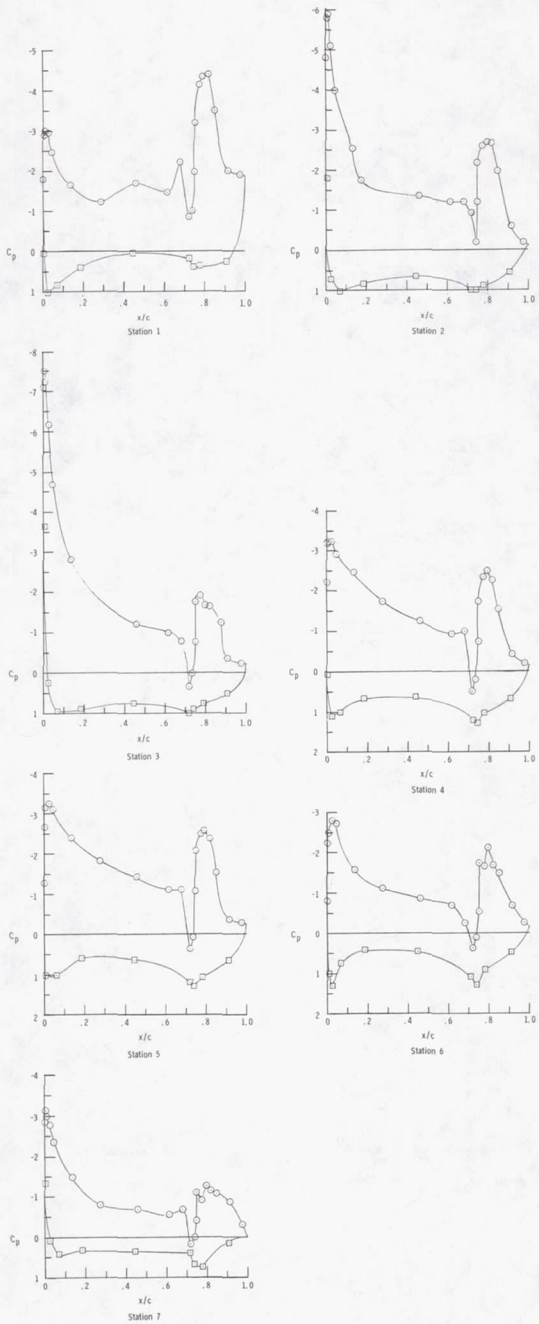
(a) $\alpha = 5^0$.

Figure 10.- Pressure coefficients for up-at-the-tip rotation. Basic leading edge; $C_{T,S} = 0.60$; $\delta_f = 40$.



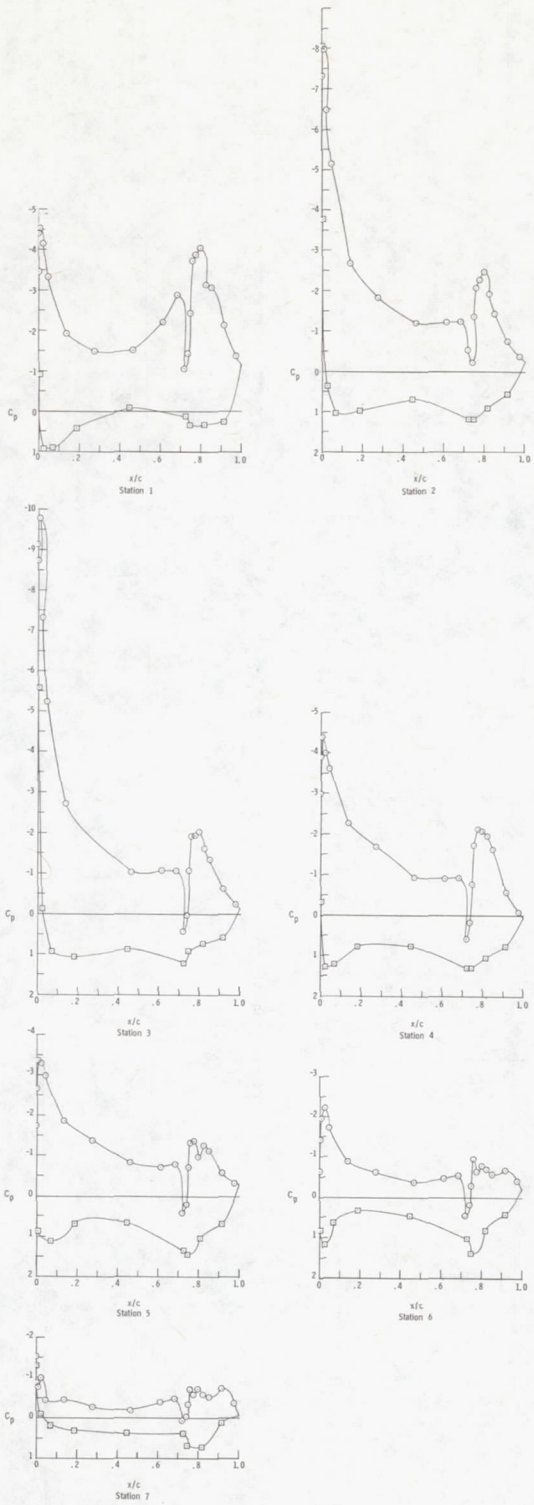
(b) $\alpha = 20^{o}$.

Figure 10.- Continued.



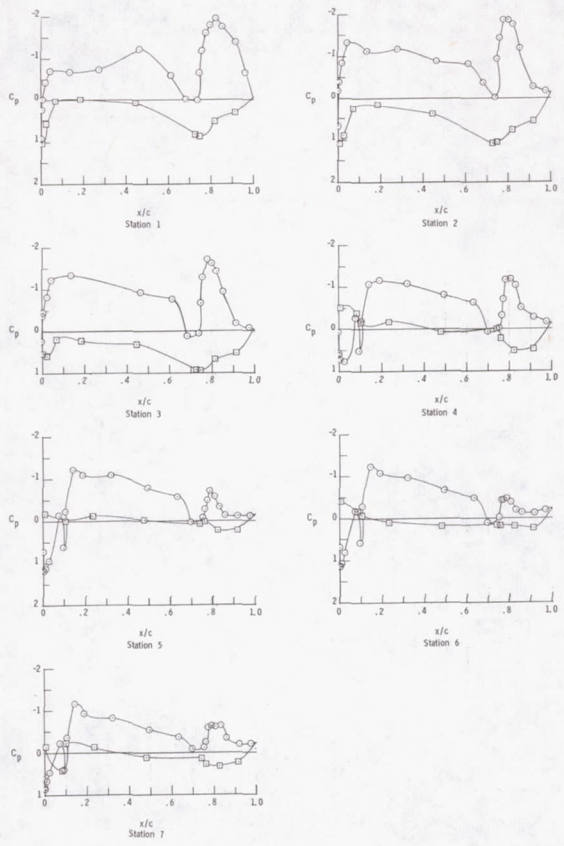
(c) $\alpha = 30^{o}$.

Figure 10.- Continued.



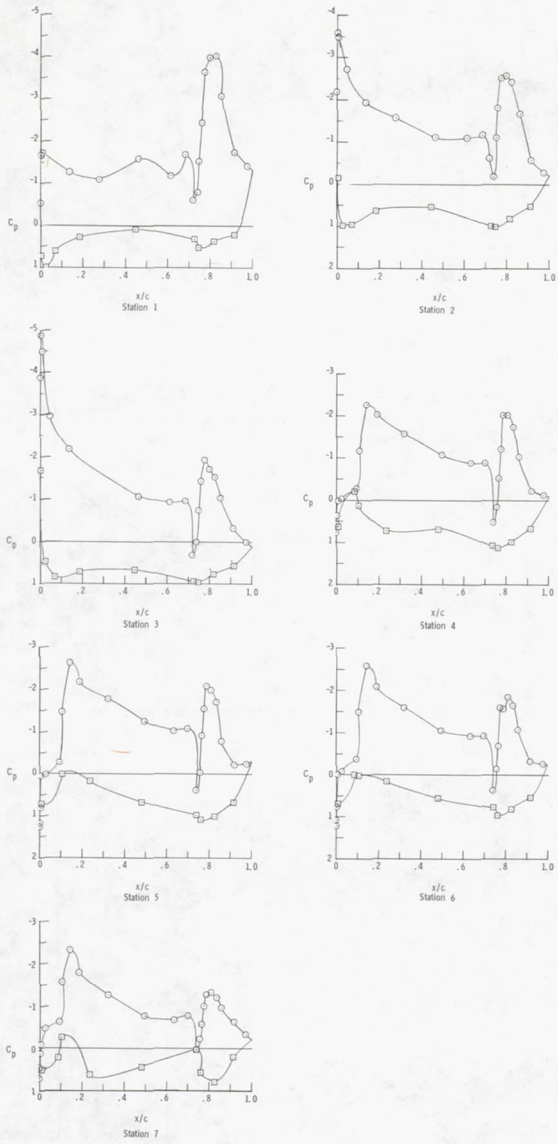
(d) $\alpha = 40^{o}$.

Figure 10.- Concluded.



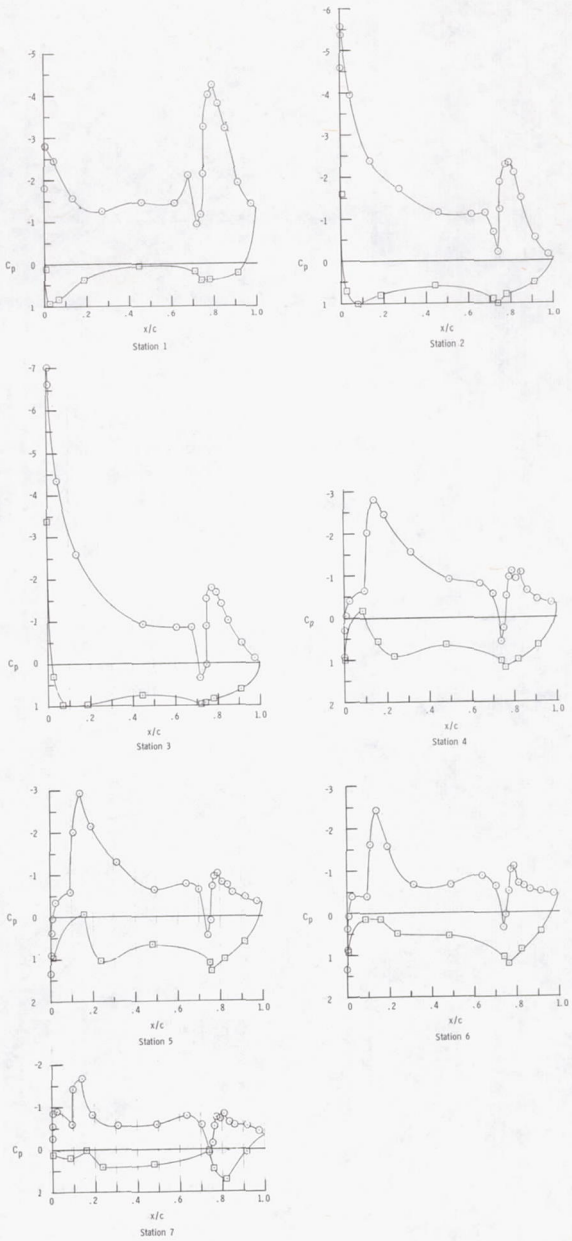
(a) $\alpha = 5^0$.

Figure 11.- Pressure coefficients for up-at-the-tip rotation. Inboard slat; $C_{T,S} = 0.60$; $\delta_f = 40$.



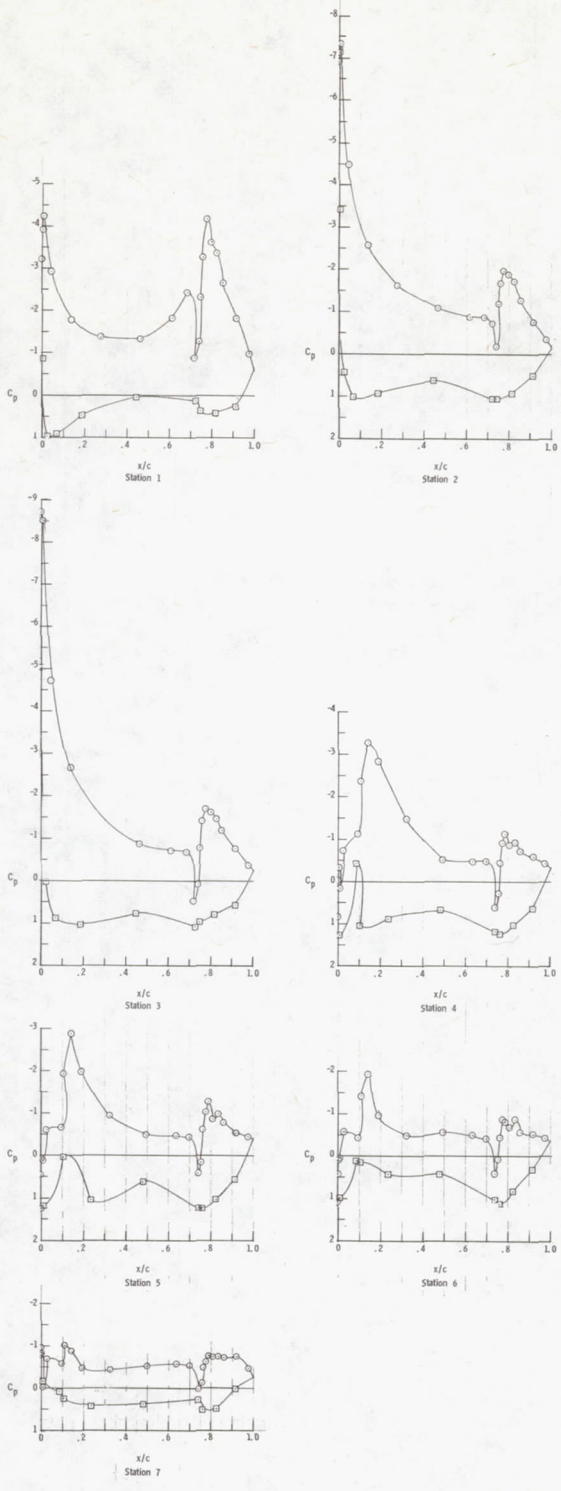
(b) $\alpha = 20^0$.

Figure 11.- Continued.



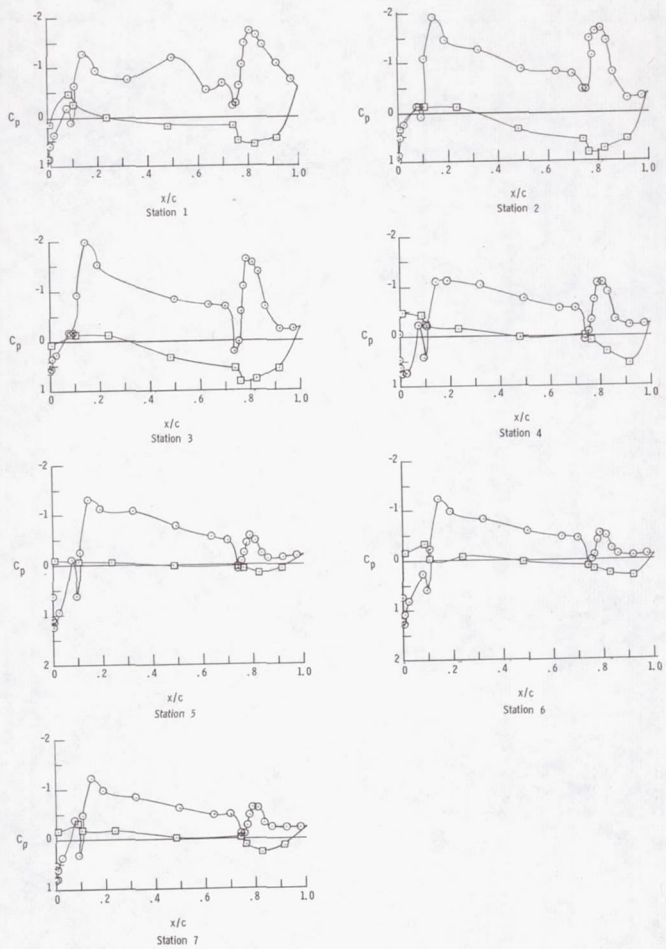
(c) $\alpha = 30^0$.

Figure 11.- Continued.



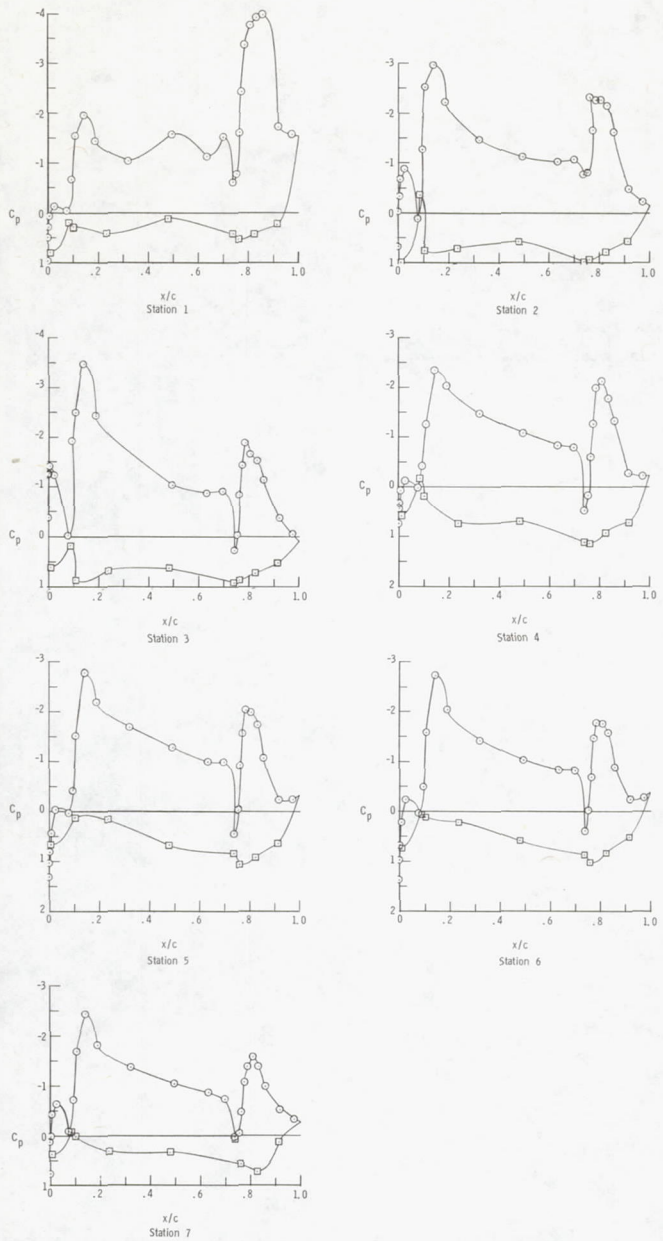
(d) $\alpha = 40^0$.

Figure 11.- Concluded.



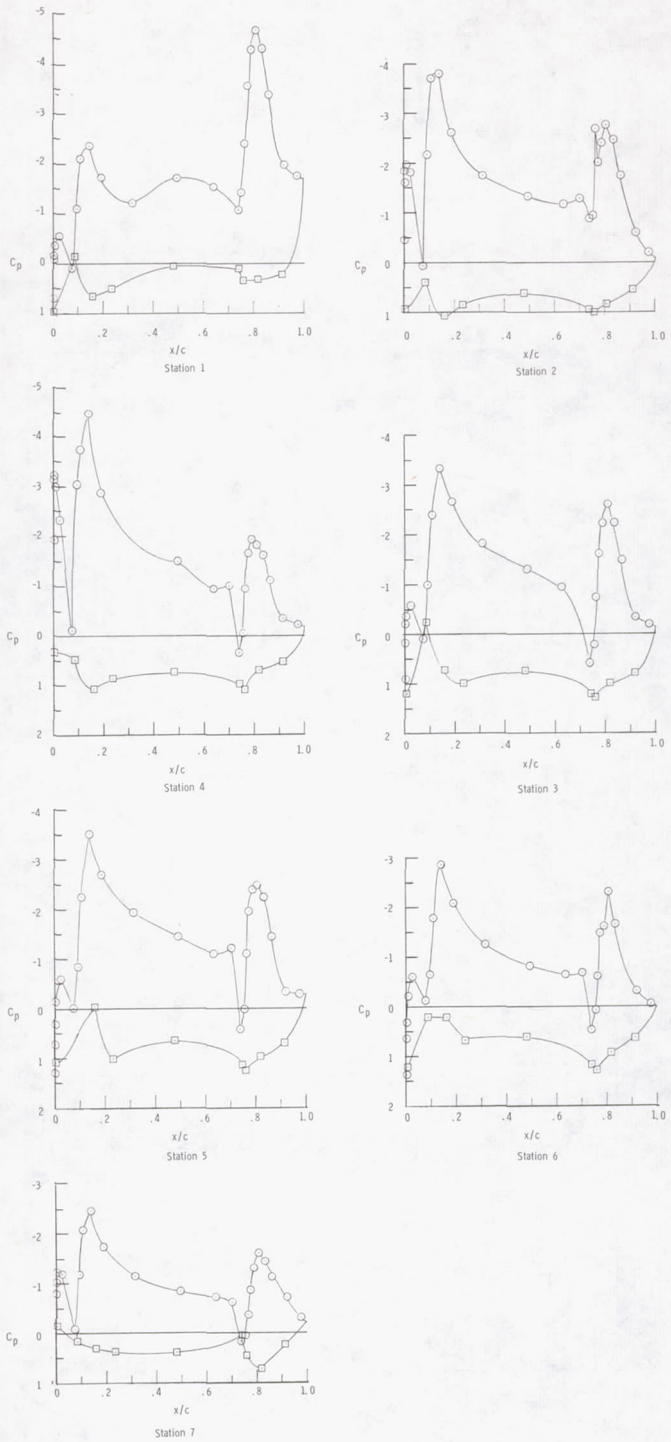
(a) $\alpha = 5^0$.

Figure 12.- Pressure coefficients for up-at-the-tip rotation. Full span slat; $C_{T,S} = 0.60$; $\delta_f = 40$.



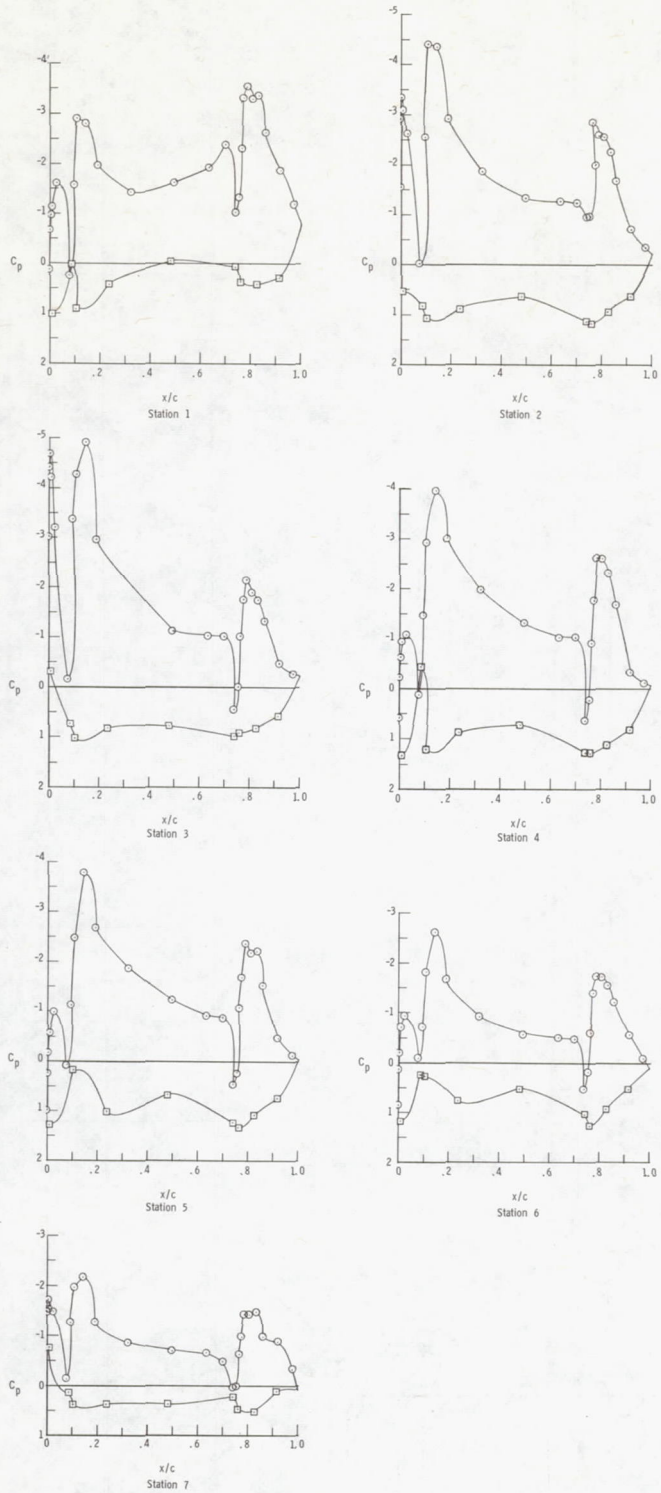
(b) $\alpha = 20^0$.

Figure 12.- Continued.



(c) $\alpha = 30^0$.

Figure 12.- Continued.



(d) $\alpha = 40^0$.

Figure 12.- Concluded.

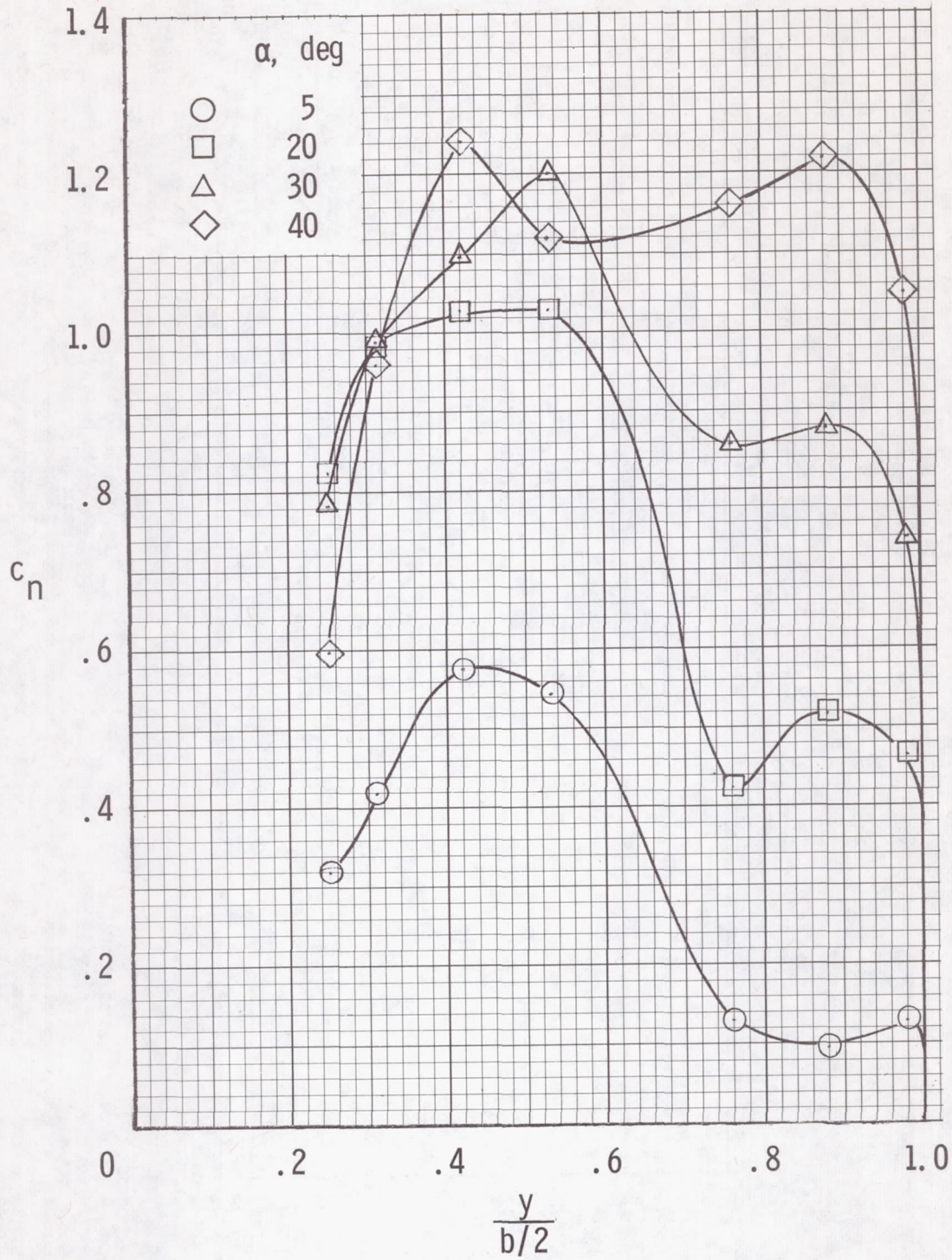


Figure 13.- Span loading characteristics with down-at-the-tip rotation for $C_{T,S} = 0.60$. Basic leading edge, $\delta_f = 0^0$.

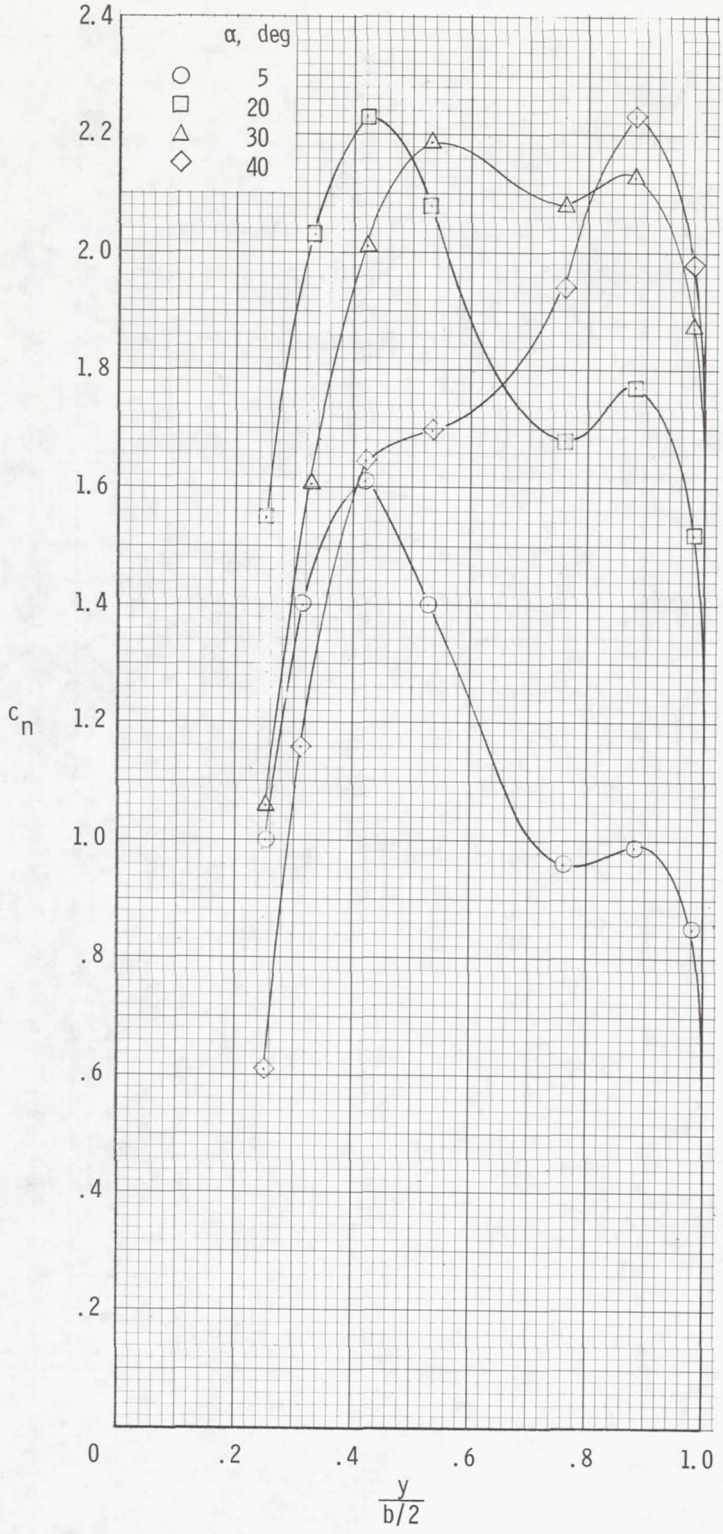


Figure 14.- Span loading characteristics with down-at-the-tip rotation for $C_{T,S} = 0.60$. Basic leading edge, $\delta_f = 40^o$.

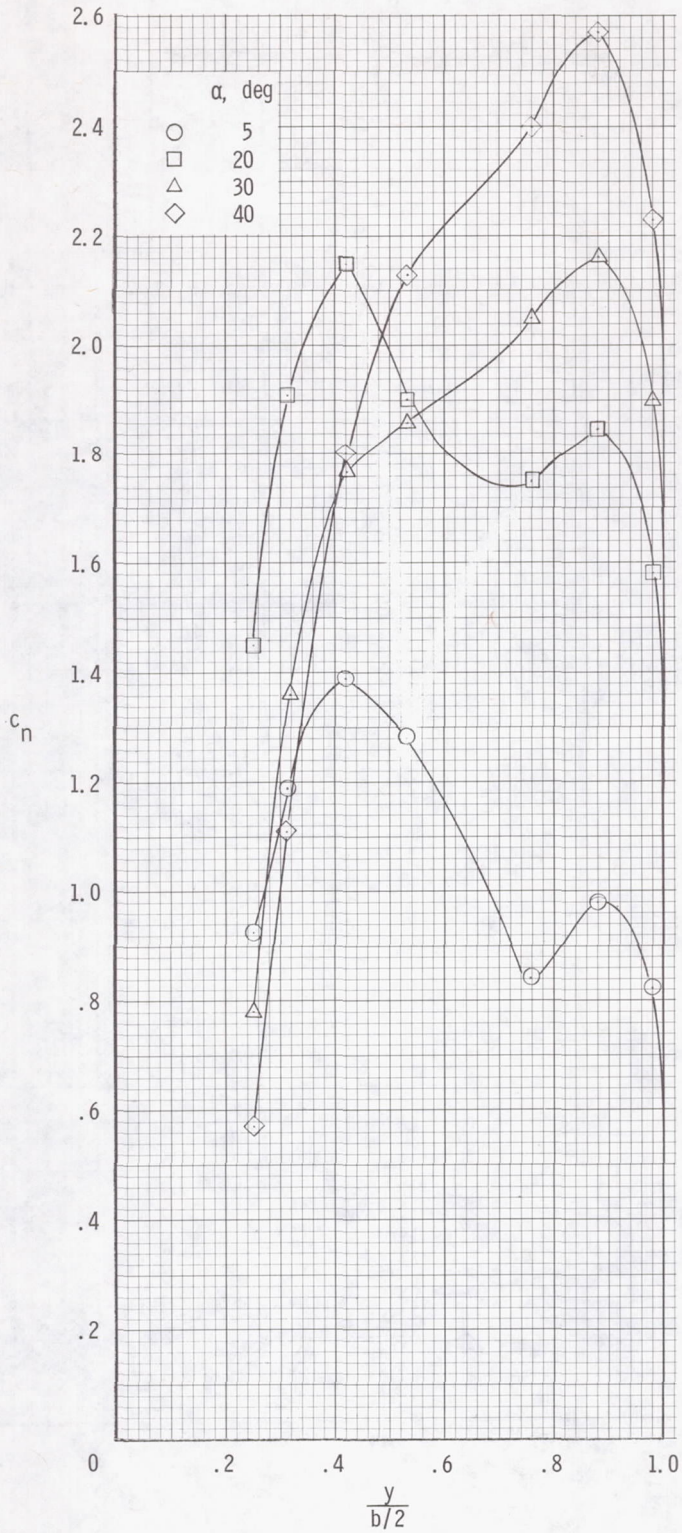


Figure 15.- Span loading characteristics with down-at-the-tip rotation for $C_{T,S} = 0.60$. Inboard slat; $\delta_f = 40^o$.

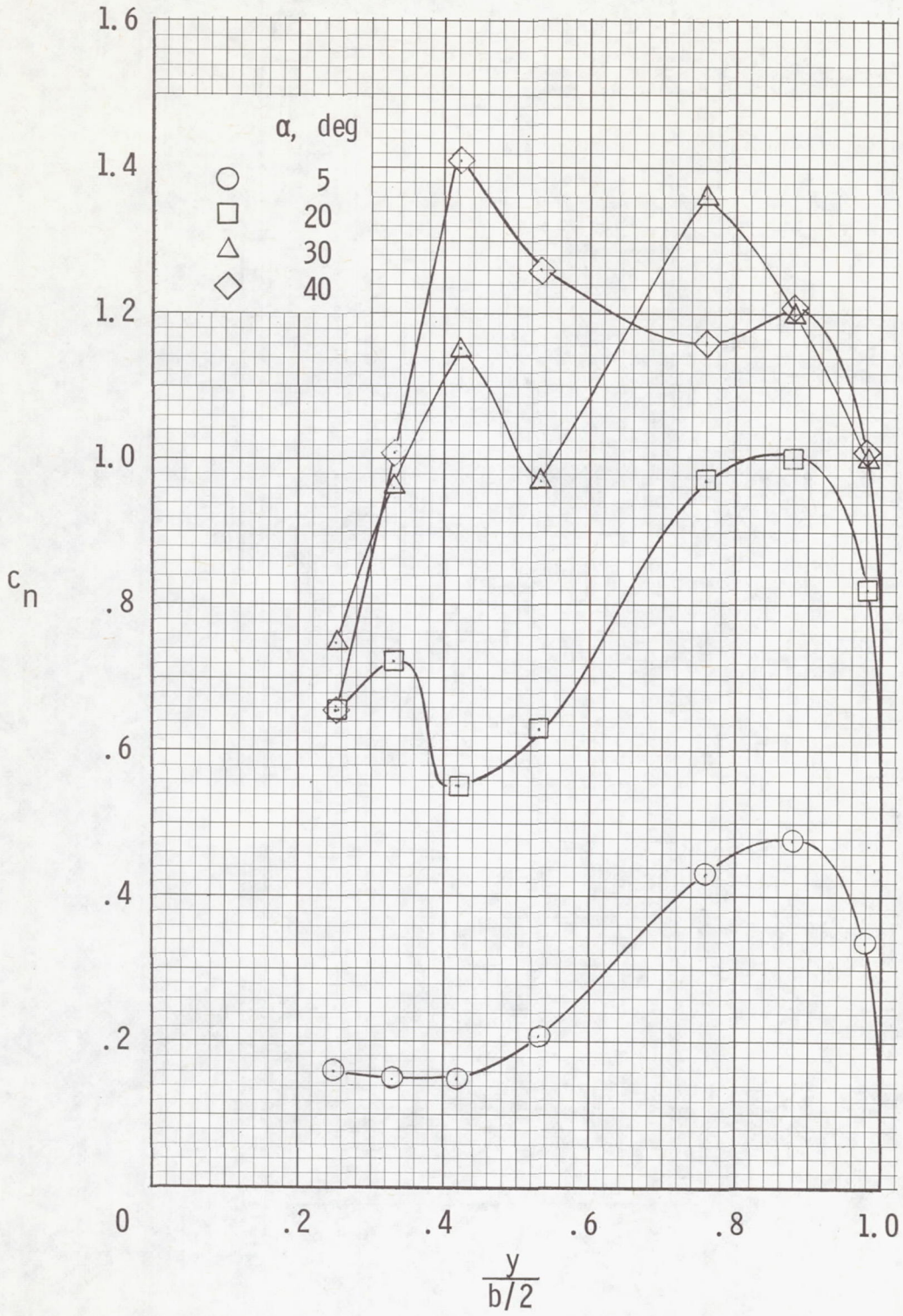


Figure 16.- Span loading characteristics with up-at-the-tip rotation for $C_{T,S} = 0.60$. Basic leading edge; $\delta_f = 0^0$.

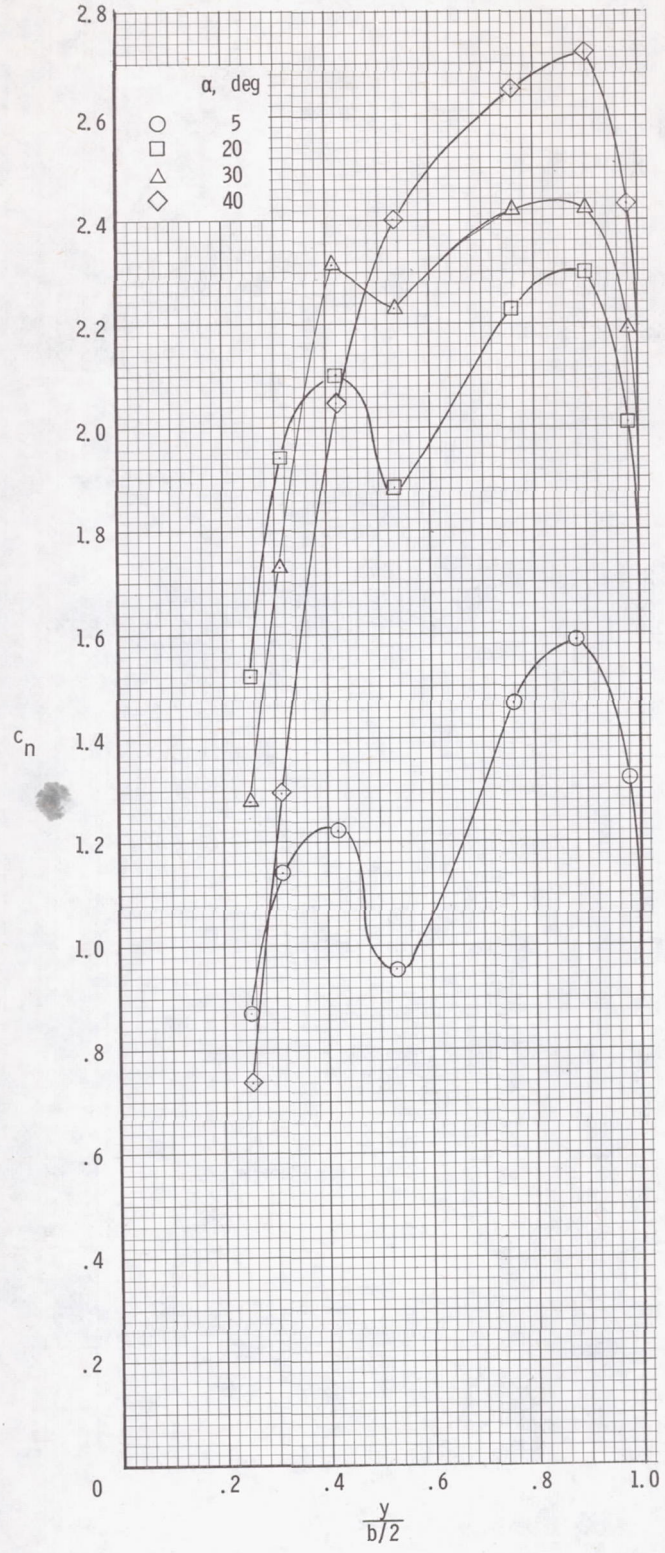


Figure 17.- Span loading characteristics with up-at-the-tip rotation for $C_{T,S} = 0.60$. Basic leading edge; $\delta_f = 40^o$.

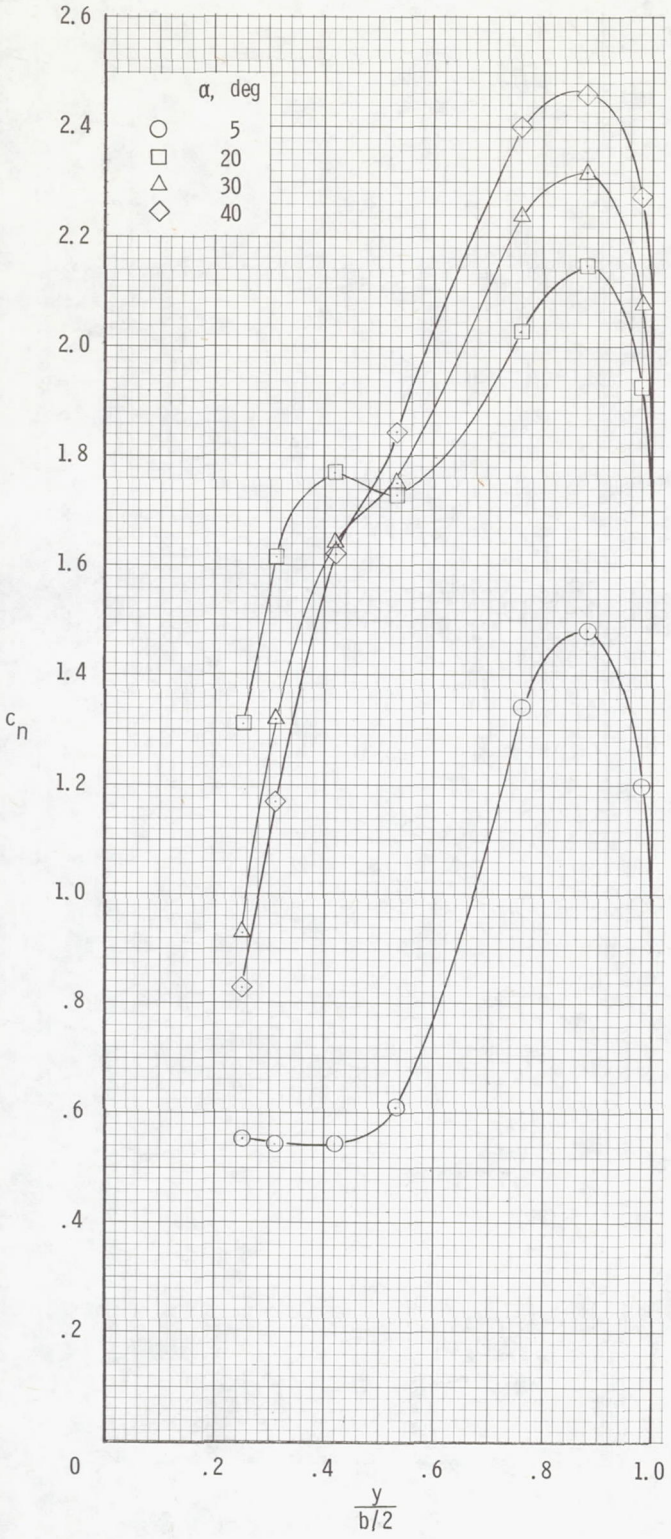


Figure 18.- Span loading characteristics with up-at-the-tip rotation for $C_{T,S} = 0.60$. Inboard slat; $\delta_f = 40^0$.

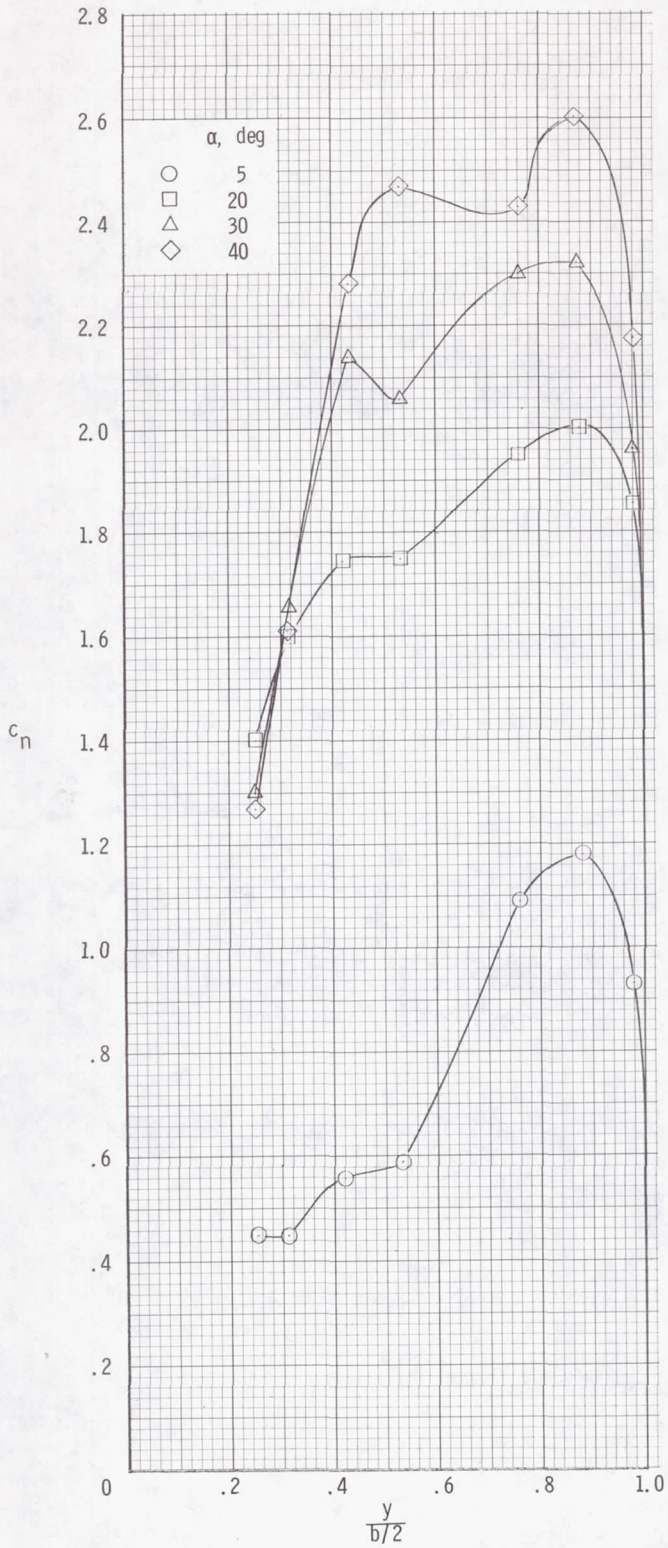
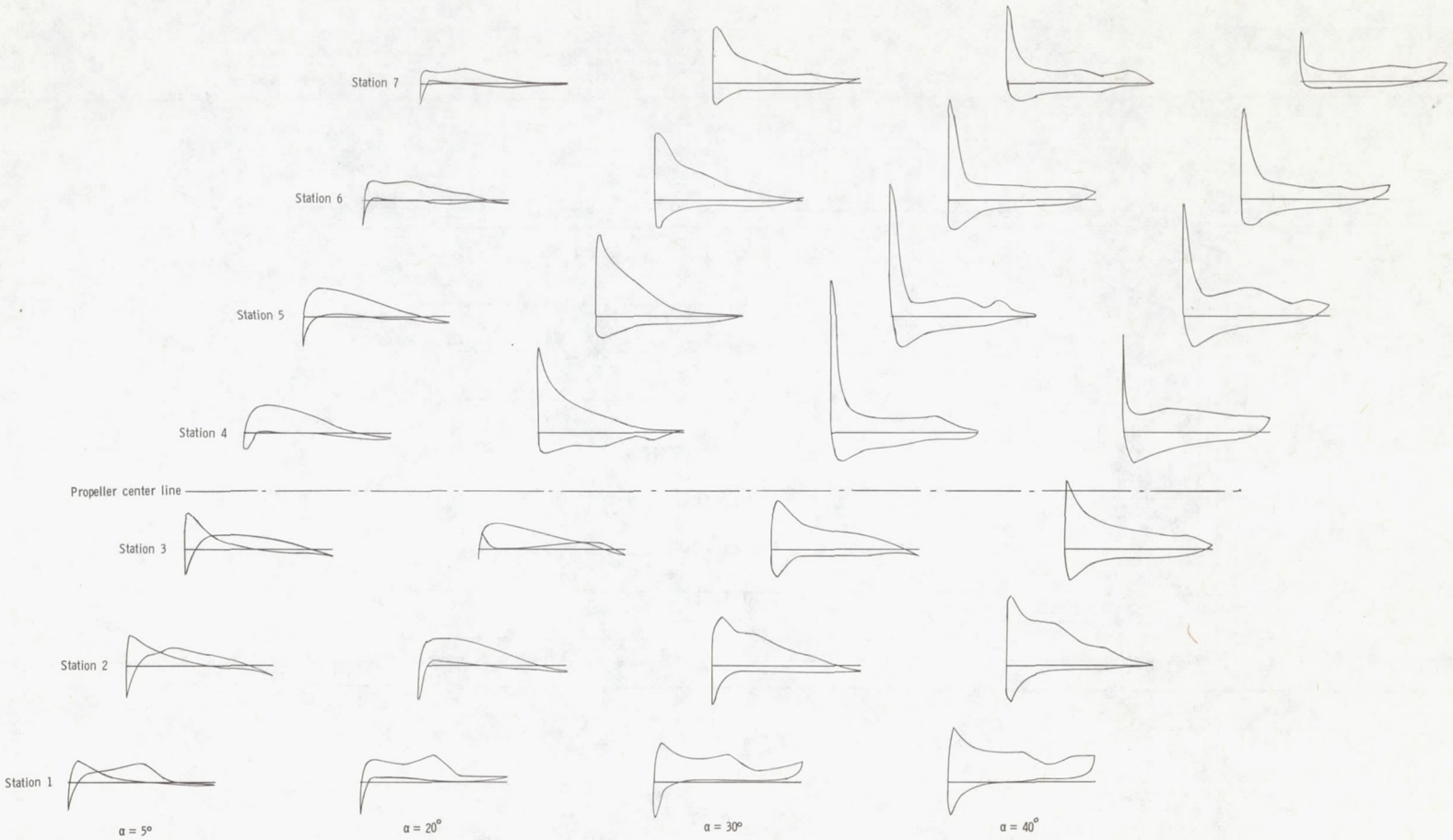
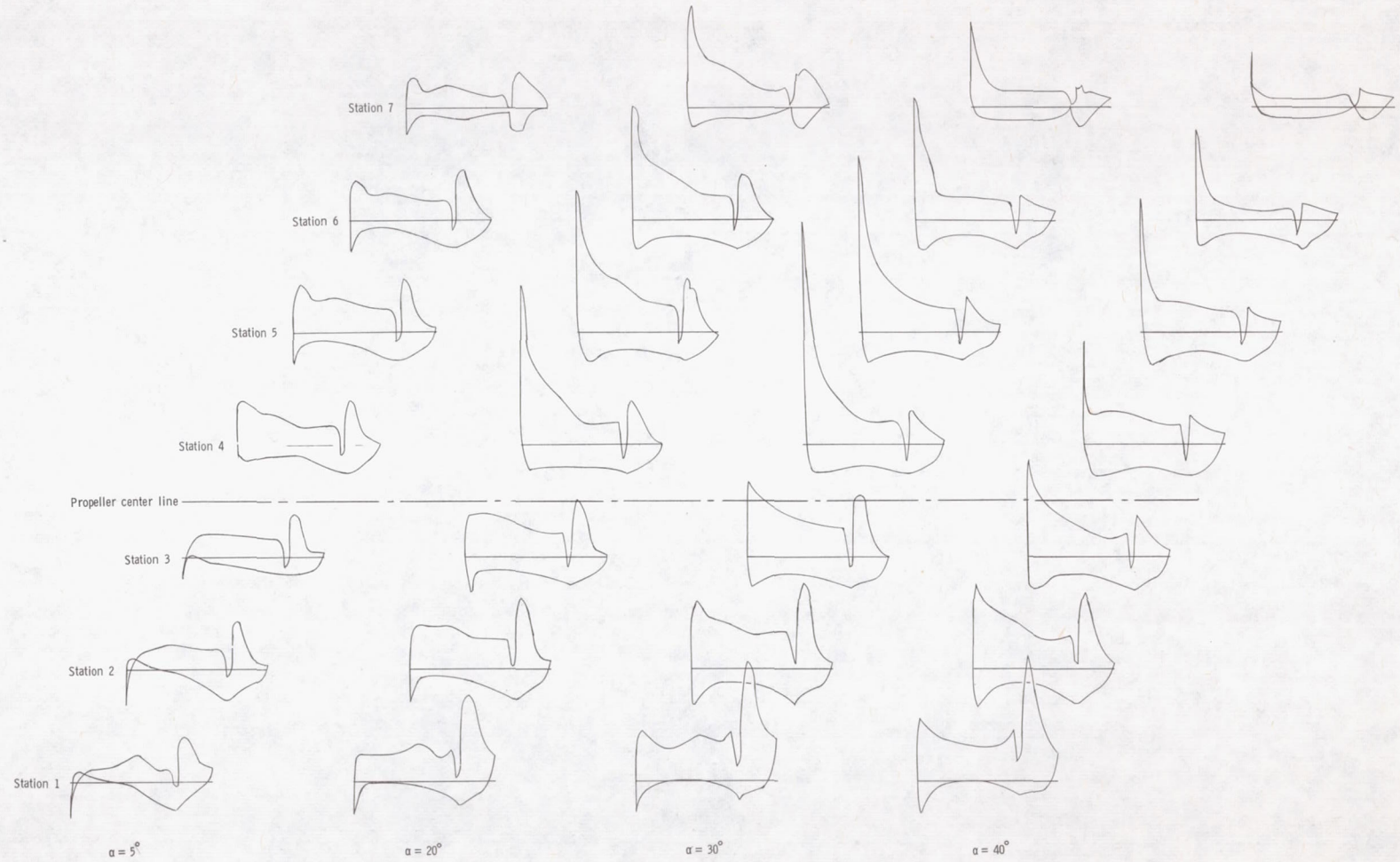


Figure 19.- Span loading characteristics with up-at-the-tip rotation for $C_{T,S} = 0.60$. Full span slat and fences; $\delta_f = 40^o$.



(a) Basic leading edge; $\delta_f = 0^o$.

Figure 20.- Chordwise pressure distribution for down-at-the-tip rotation and $C_{T,S} = 0.60$.



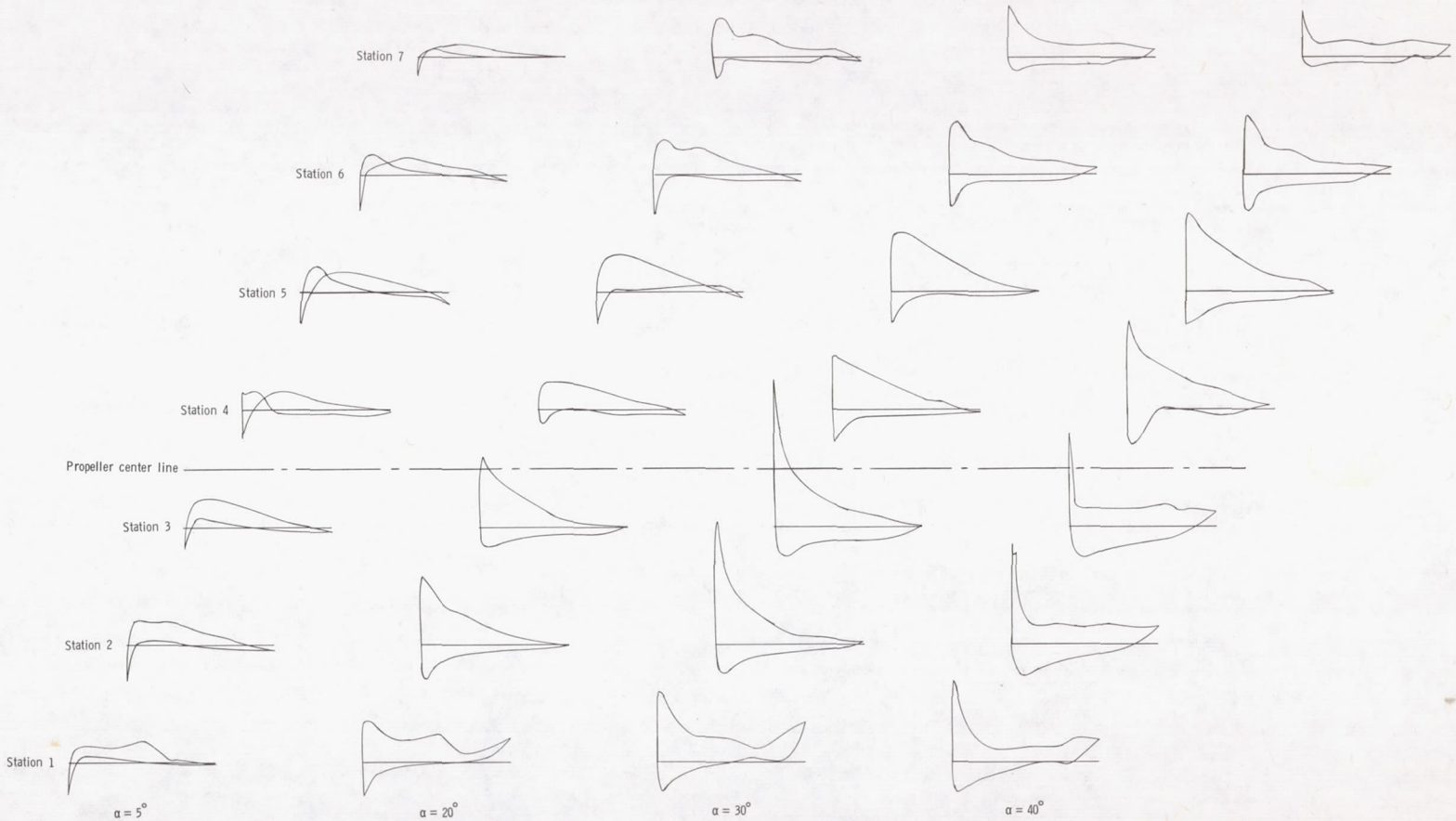
(b) Basic leading edge; $\delta_f = 40^o$.

Figure 20.- Continued.



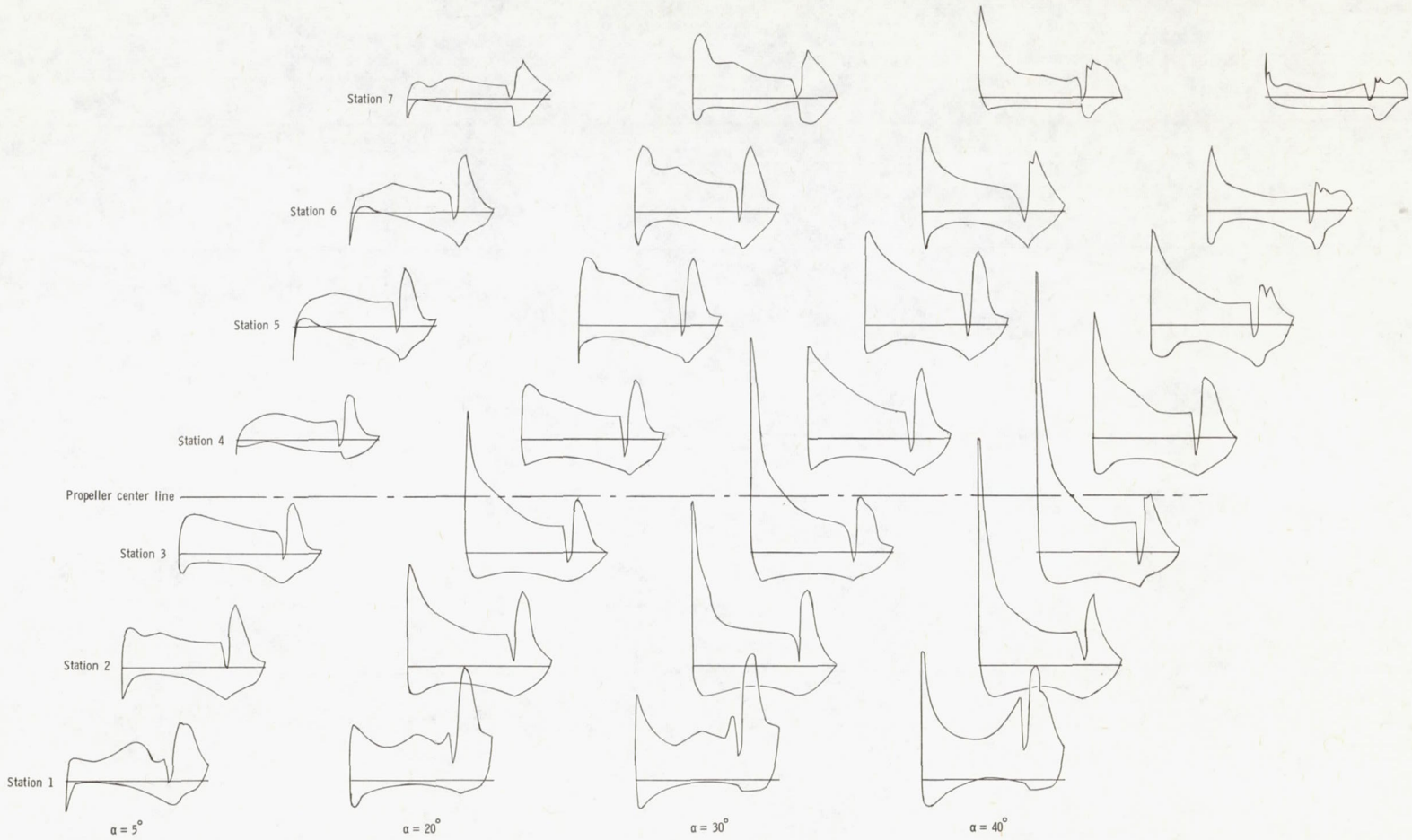
(c) Inboard slat; $\delta_f = 40^o$.

Figure 20.- Concluded.



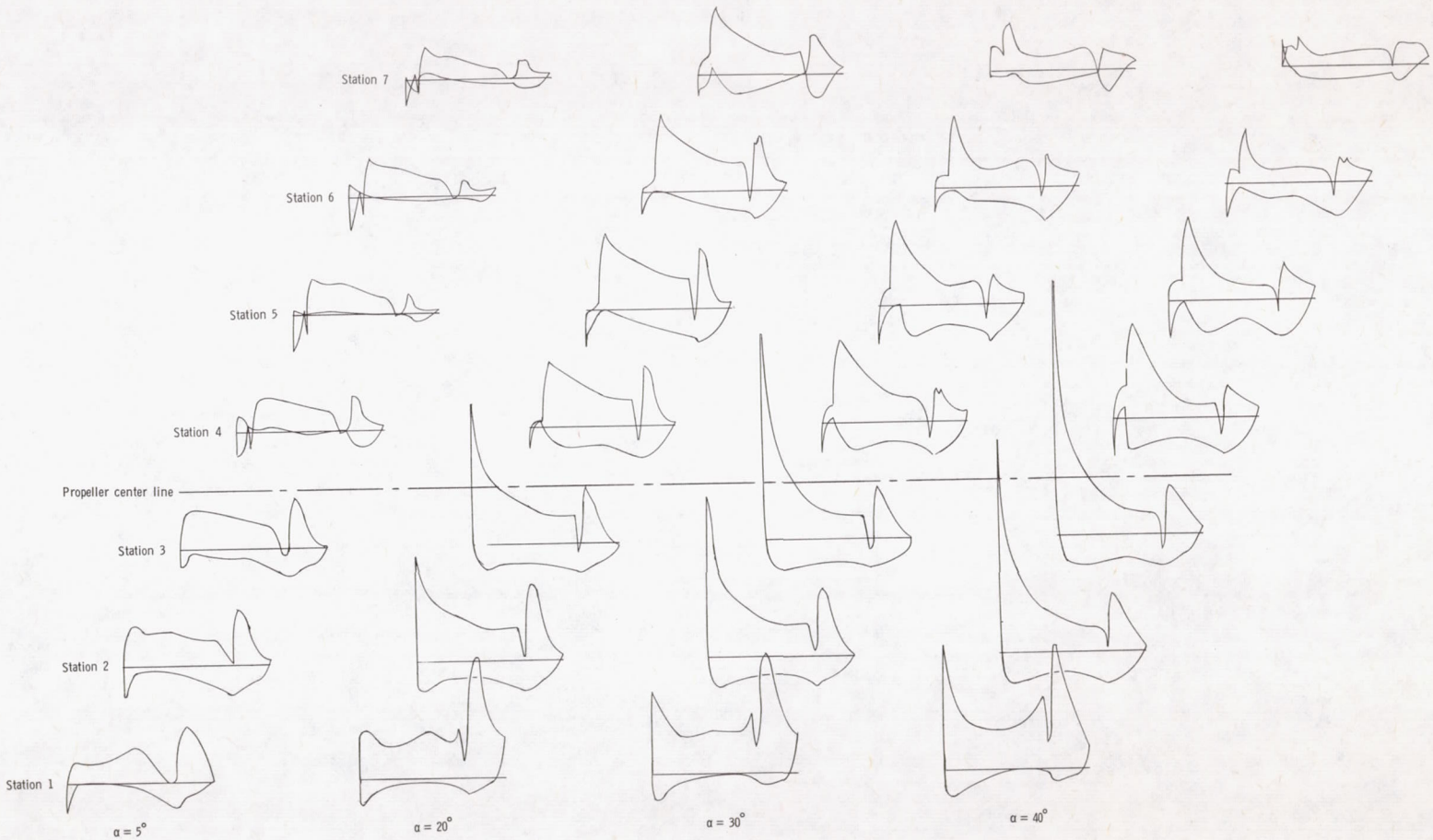
(a) Basic leading edge; $\delta_f = 0^o$.

Figure 21.- Chordwise pressure distribution for up-at-the-tip rotation and $C_{T,S} = 0.60$.



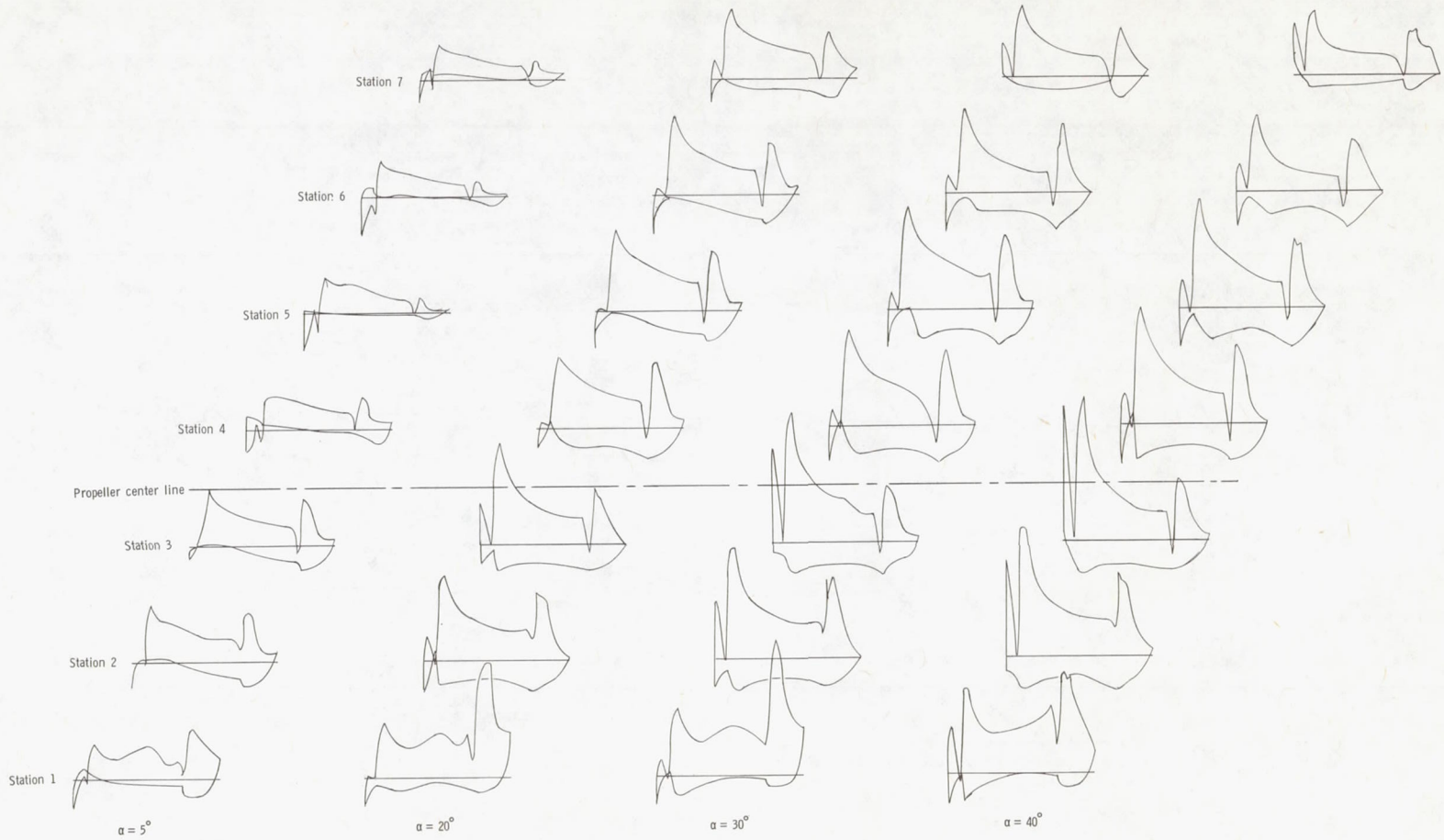
(b) Basic leading edge; $\delta_f = 40^0$.

Figure 21.- Continued.



(c) Inboard slat; $\delta_f = 40^0$.

Figure 21.- Continued.



(d) Full-span slat and fences; $\delta_f = 40^o$.

Figure 21.- Concluded.

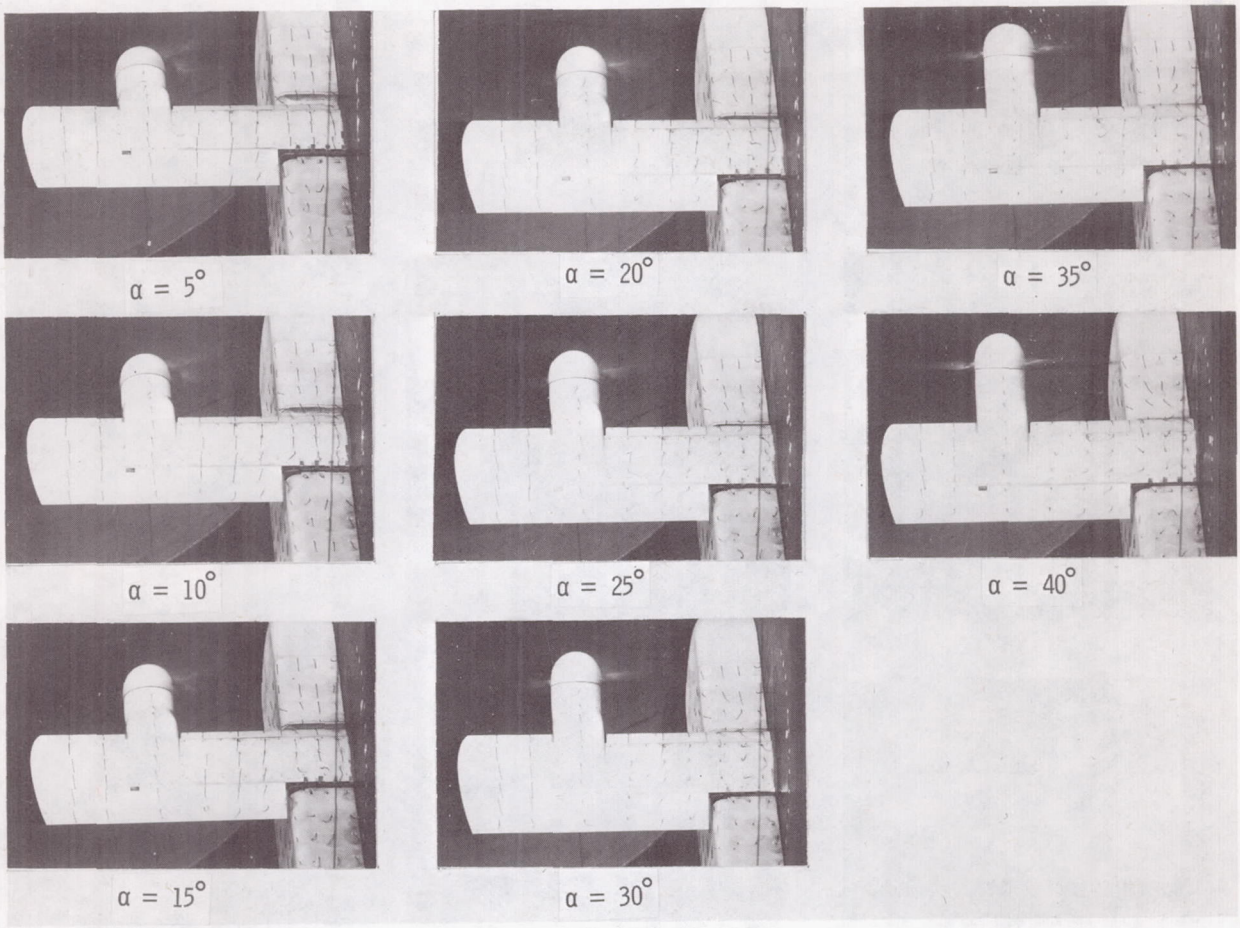


Figure 22.- Flow characteristics for down-at-the-tip rotation. $C_{T,S}$ = 0.60; basic leading edge; $\delta_f = 0^o$.

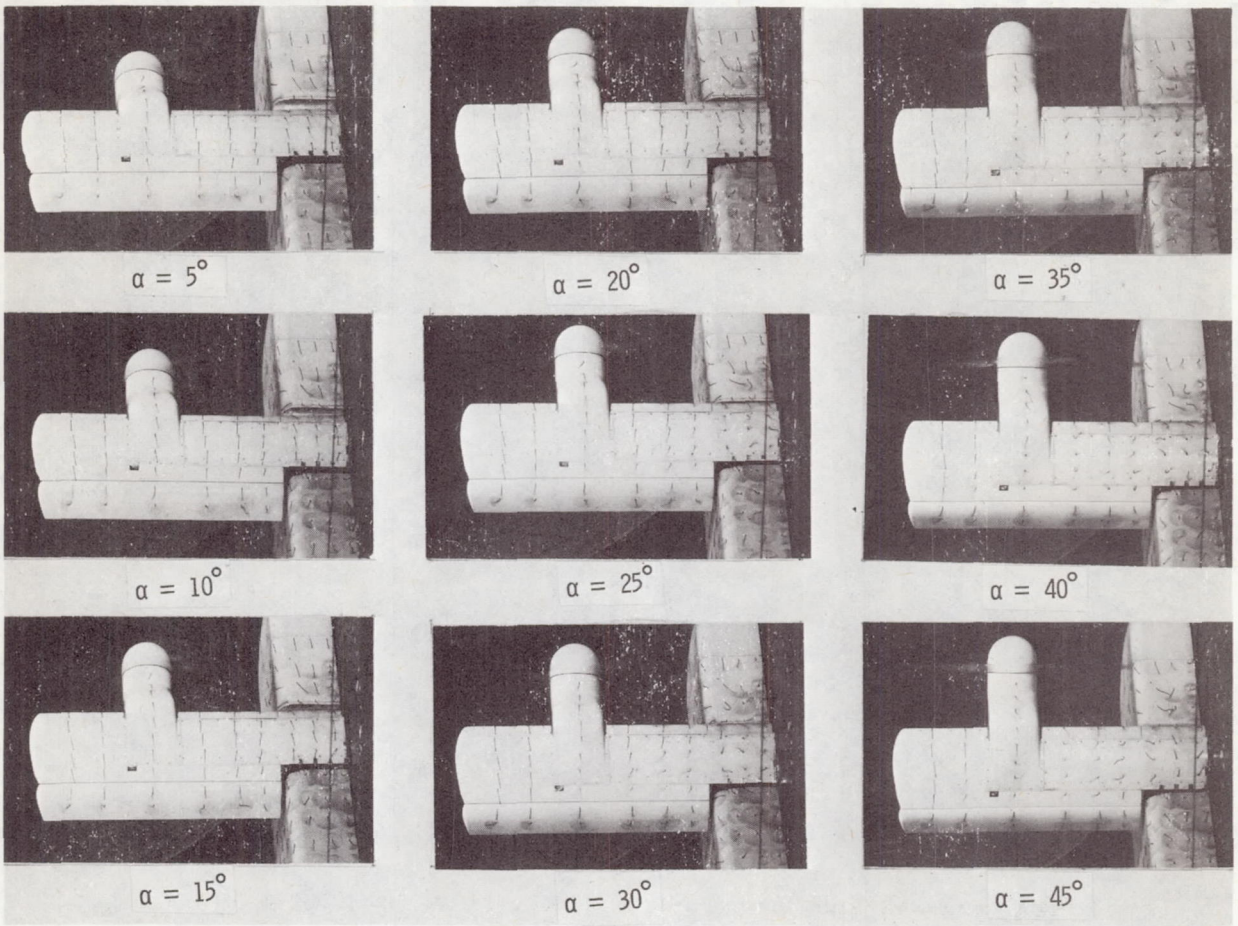


Figure 23.- Flow characteristics for down-at-the-tip rotation. $C_{T,S}$ = 0.60; basic leading edge; δ_f = 40°.

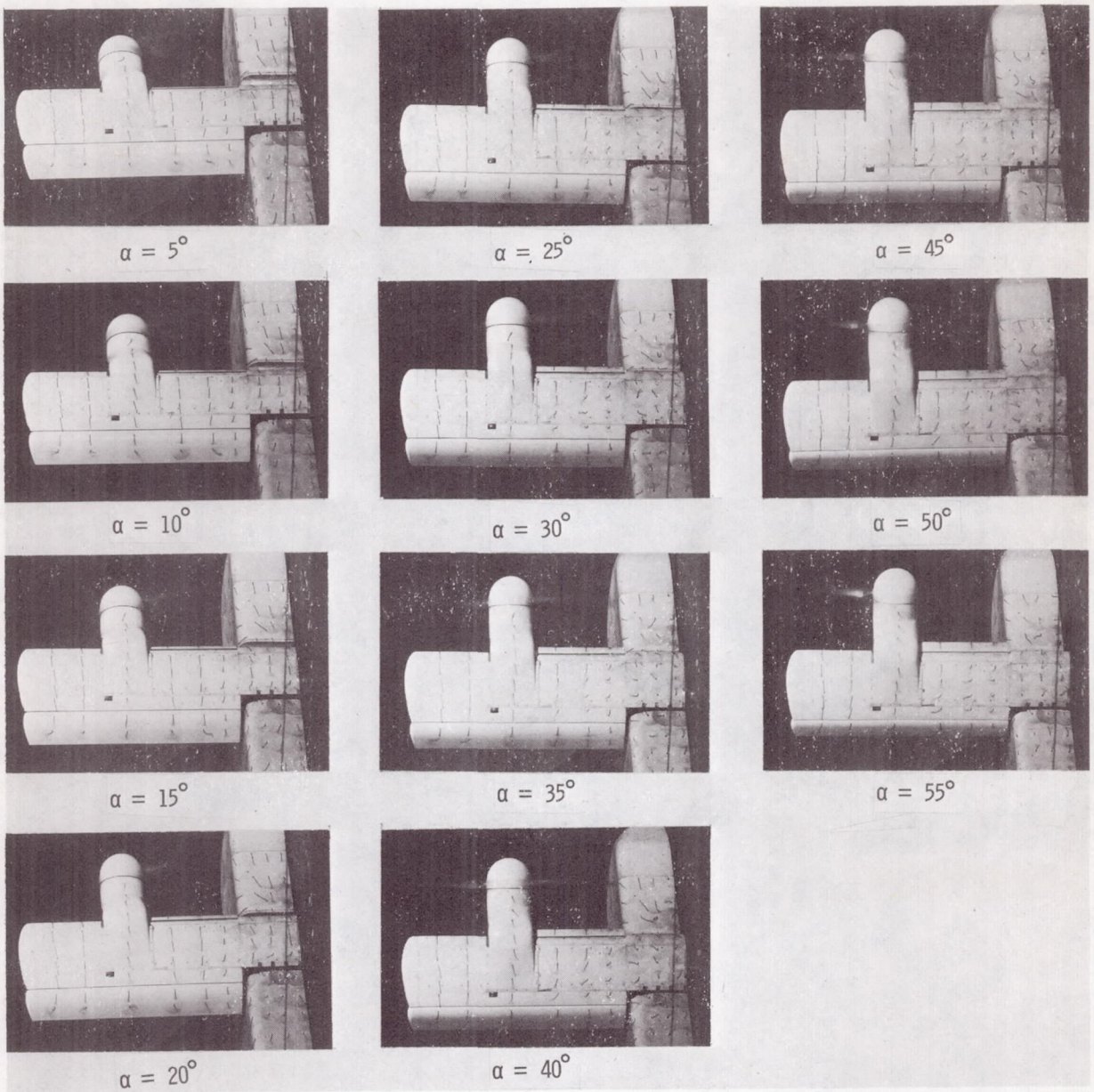


Figure 24.- Flow characteristics for down-at-the-tip rotation. $C_{T,S}$ = 0.60; inboard slat; δ_f = 40°.

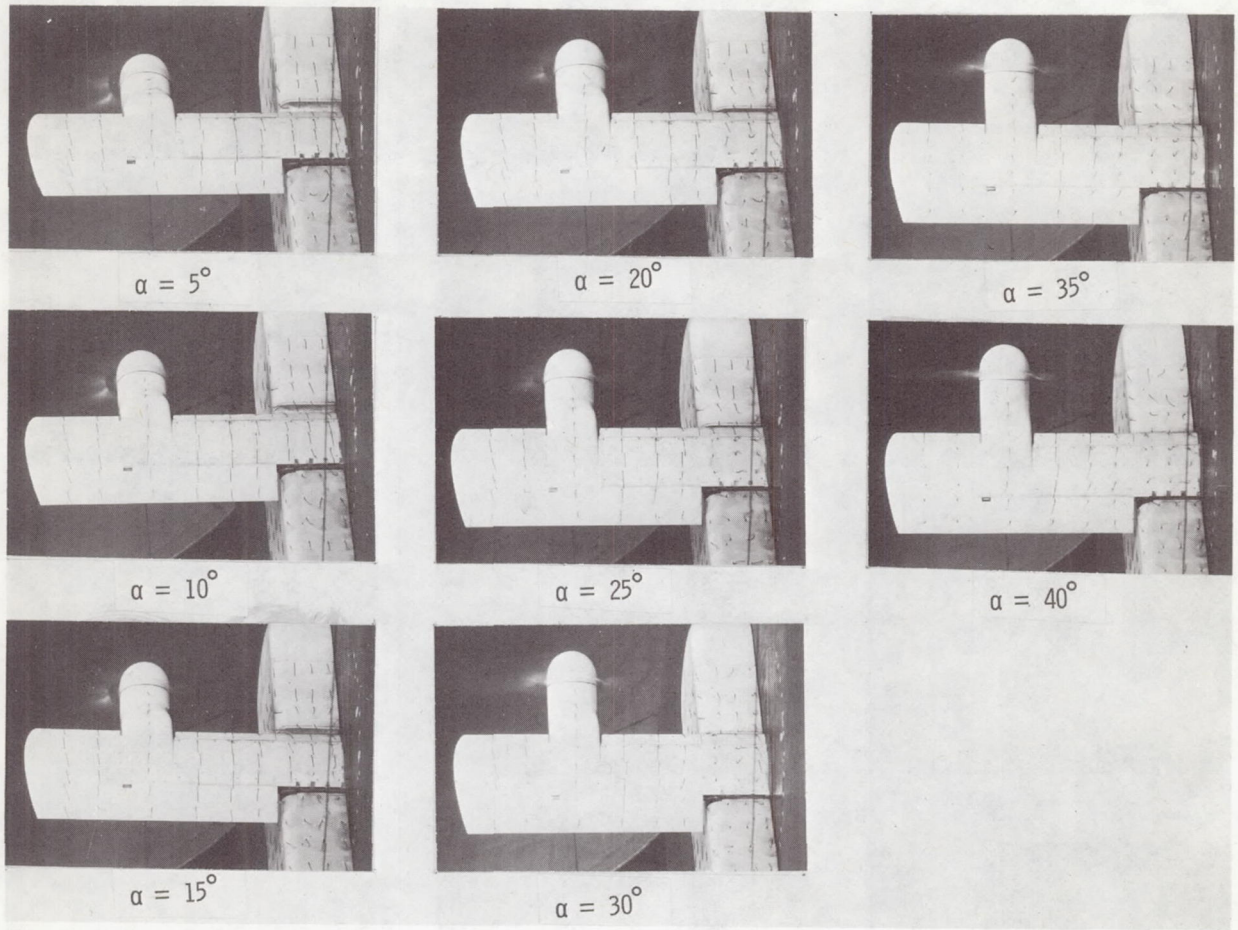


Figure 25.- Flow characteristics for up-at-the-tip rotation. $C_{T,S}$ = 0.60; basic leading edge; δ_f = 0°.

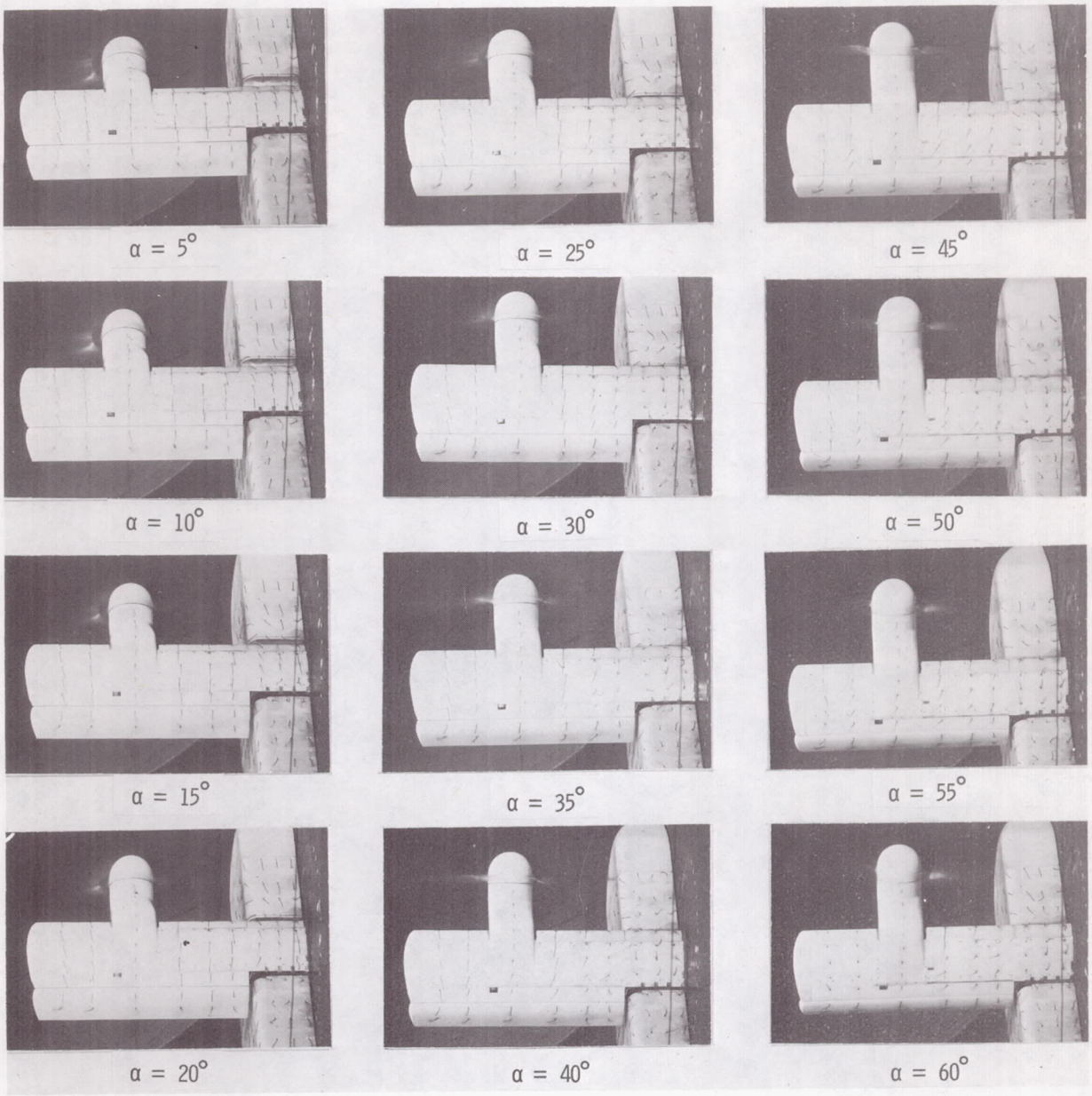


Figure 26.- Flow characteristics for up-at-the-tip rotation. $C_{T,S}$ = 0.60; basic leading edge; δ_f = 40°.

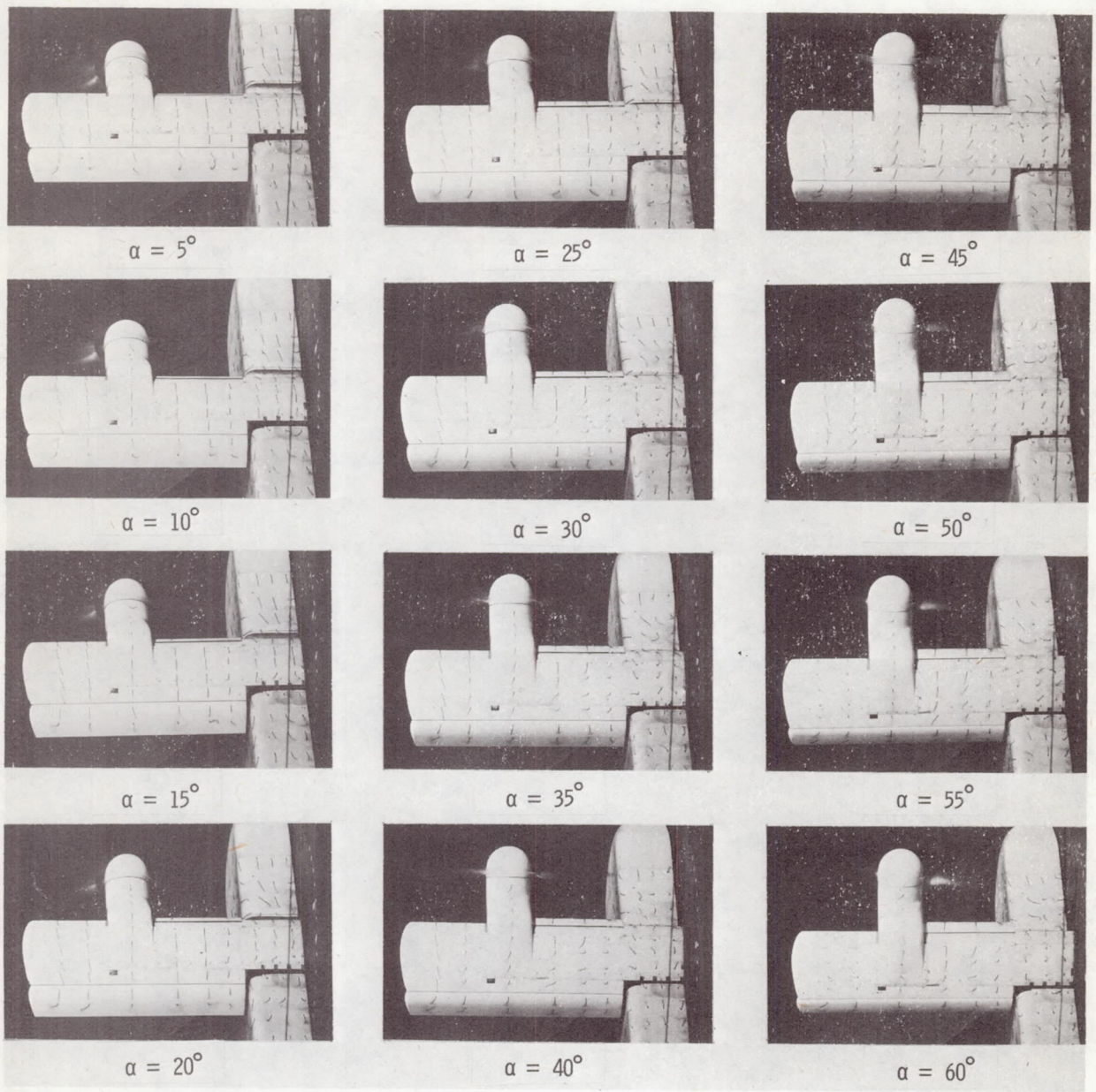


Figure 27.- Flow characteristics for up-at-the-tip rotation. $C_{T,S}$ = 0.60; inboard slat; $\delta_f = 40^0$.

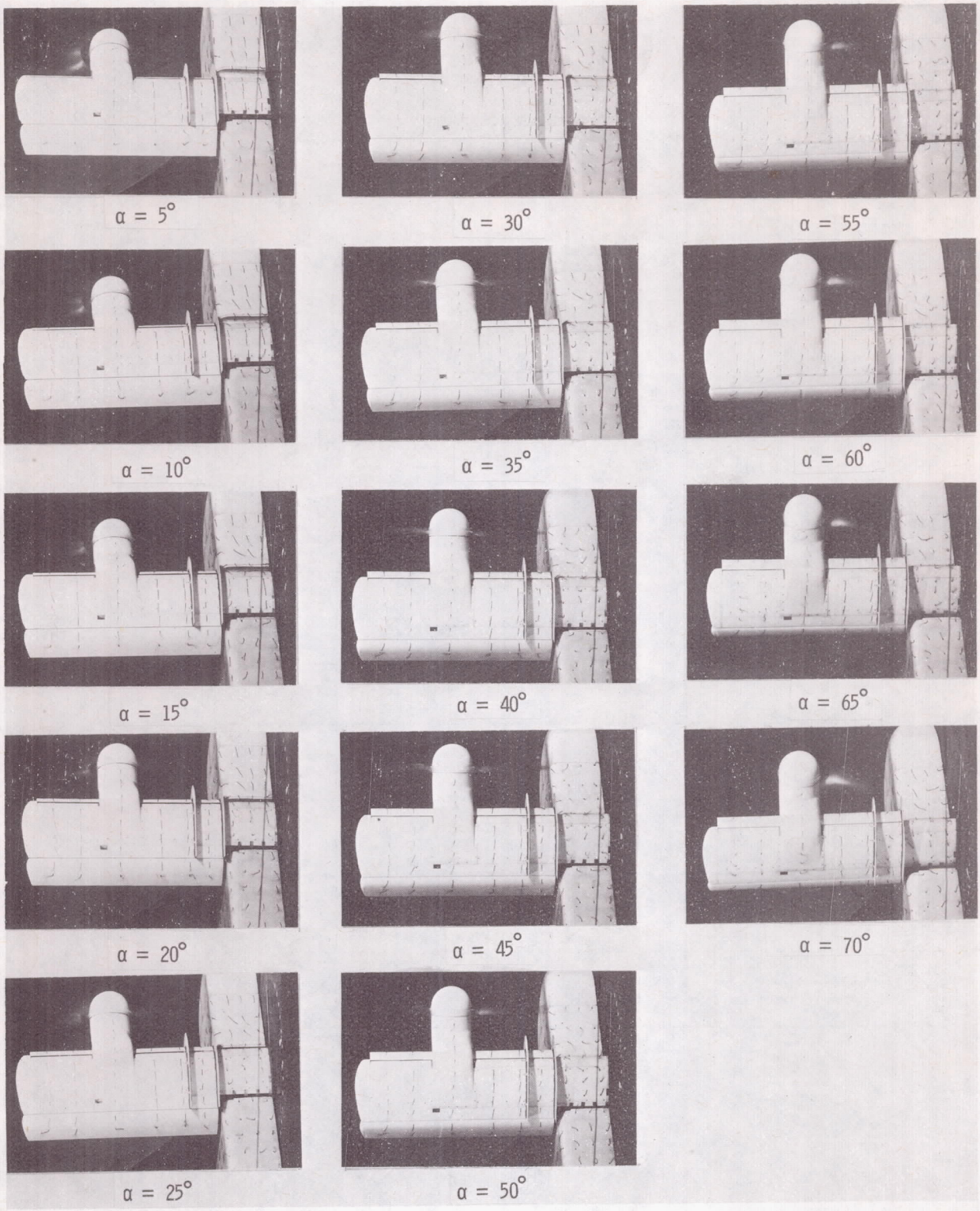
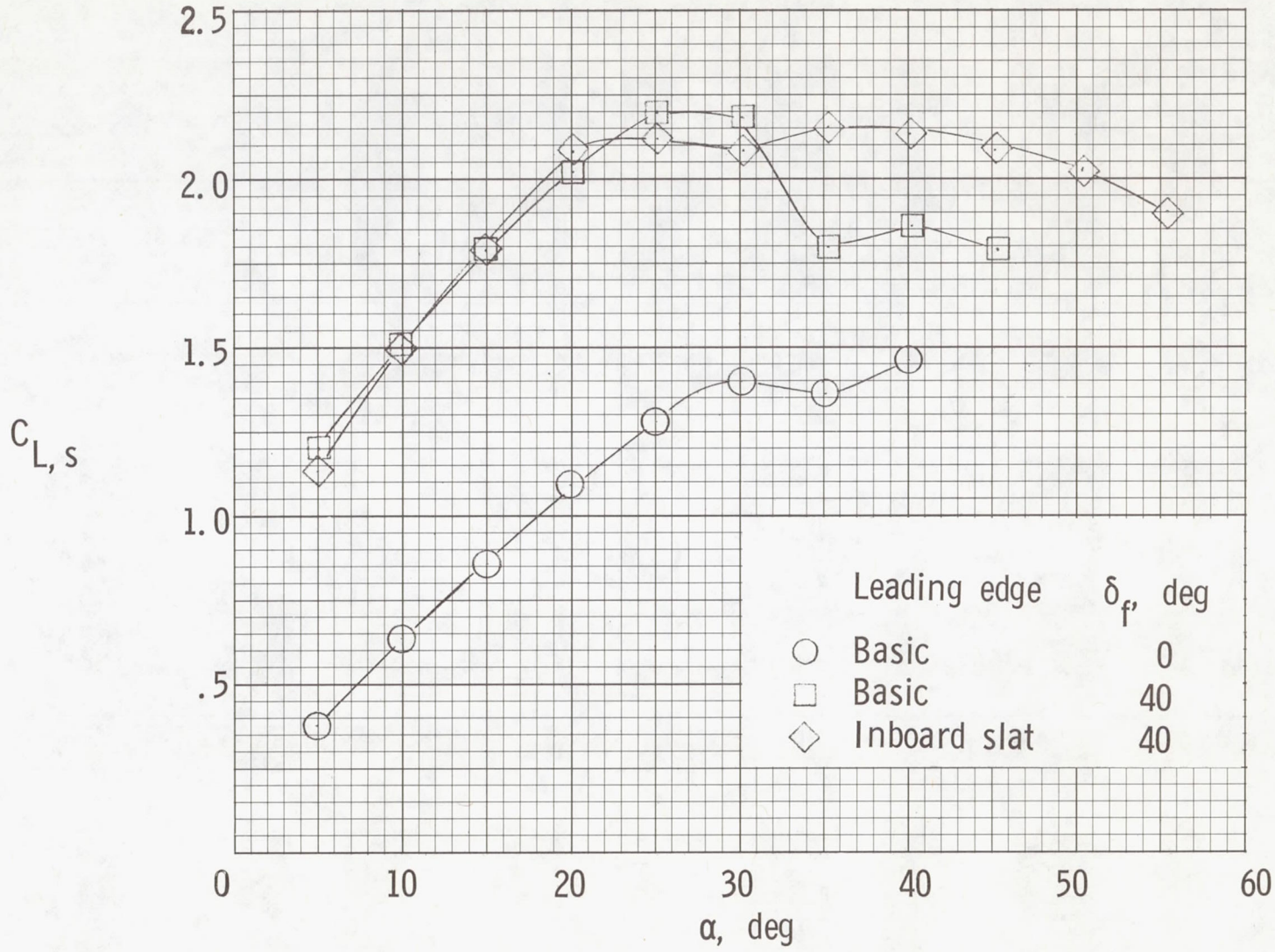
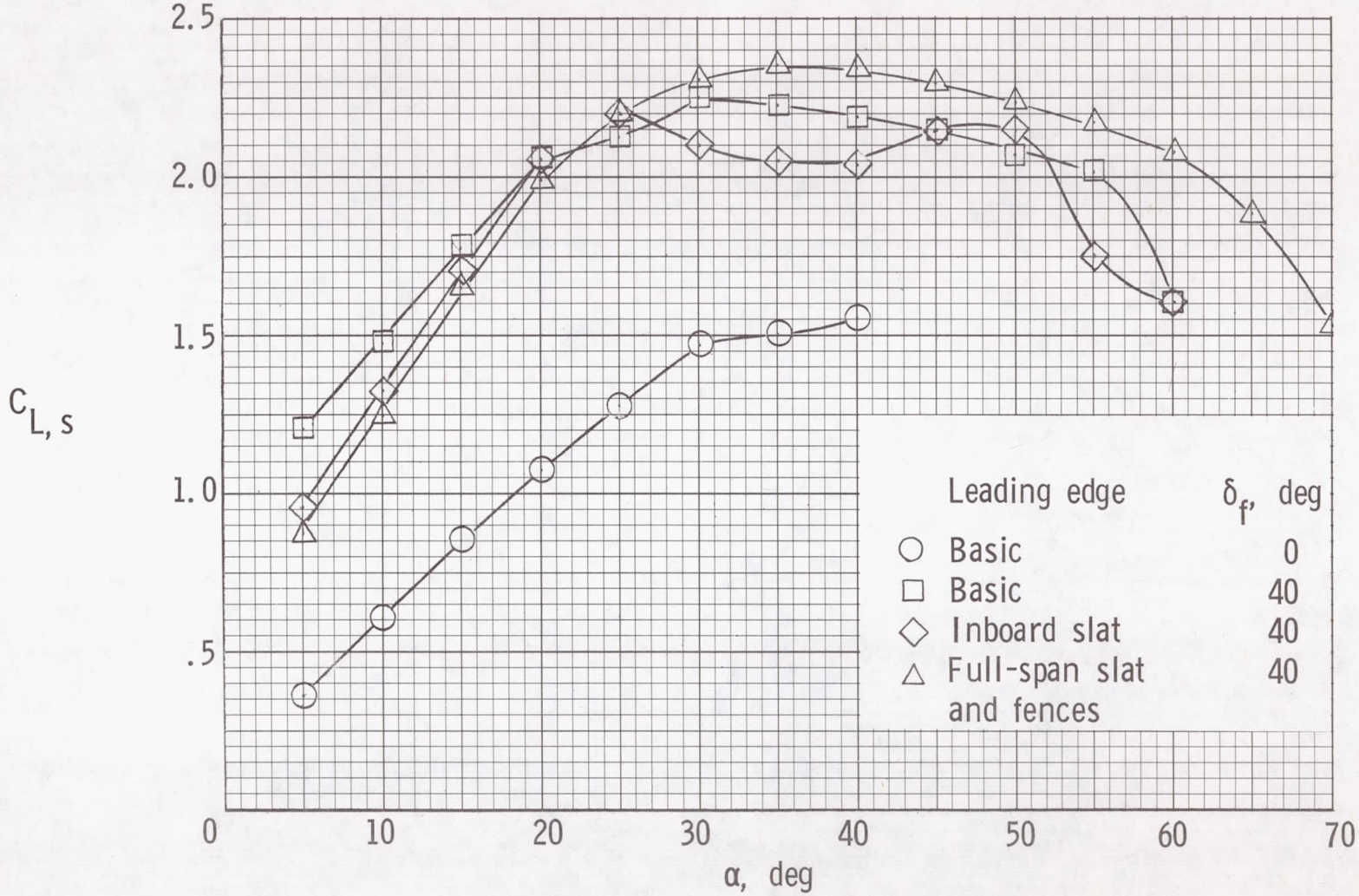


Figure 28.- Flow characteristics for up-at-the-tip rotation. $C_{T,S} = 0.60$; full span slat and fences; $\delta_f = 40^o$.



(a) Down-at-the-tip propeller rotation.

Figure 29.- Variation of lift coefficient with angle of attack for $C_{T,s} = 0.60$.



(b) Up-at-the-tip propeller rotation.

Figure 29.- Concluded.